Lamp Test Notebook #2, E-1735, 1896-1898

This notebook covers the periods December 1896-February 1897 and November 1897-January 1898. It is the second of four books used by an unidentified experimenter to record lamp tests, nos. 1-302. This book contains tests, nos. 149-300. Each test lists the amperes, volts, and candlepower used. Most of the lamps tested are designated as "Edison" lamps, although there a few that are listed as "Aylsworth" and "Edison Jr." There are several loose pages of material, including instructions for the tests from Edison to Dally (probably Charles Dally), and a letter to Edison, February 4, 1898, by Wilson Howell of the Lamp Testing Bureau, Association of Edison Illuminating Companies. The front cover is marked "Orders. Book 2. 149 to ." The pages are unnumbered. Approximately 150 pages have been used. Numerous items have been pasted into the book.

17	1pm. 12.9.96				10am. 12.11.96				3pm. 12.14.96															
	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49½			20	.48½			18	.48			16½												
2	.49½			22½	.49			19½	.48			16½												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				21¼				18.87				16½												
%				72.9				65.6				57.4												

Take down
12/17/96

ORDER No. 149 Ed. #17

At 28 3/4 Candles. Test Started 10:30 am 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	108 1/4	.52	Taken down 7:10 pm 12/1/96	100 —			99	.46
2	111	.57		100. —			101	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	109.62	.575		100 —			100	.455

—|

—+

	Candles per H. P.
At 16 Candles.	262
At 28 3/4 Candles.	379

18

	1 p.m. 12.9.96				10 a.m. 12.11.96				3 p.m. 12.14.96															
	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	·49			20½	·48			17¼	·47½			16												
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				20½				17¼				16												
%				74.5				64.5				58.2												

Letter sent 12/17/96

19 Rabbit L.

	1 p.m. 12.9.96				10 a.m. 12.11.96				3 p.m. 12.14.96															
	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	·48½			22¾	·47¼			18½	·46¾			17½												
2	·49			21¾	·48			18½	·47½			17												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				22¼				18½				17.38												
%				80.9				67.3				63.2												

Letter sent 12/17/96

ORDER No. 150 Ed. # 18

At 27½ Candles. Test Started 10.30 am. 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	107½	.50½	Fell down 12.17.96 7.10 pm.	100 —	—		98½	.45
2	107½	.50½	8.10 pm. 12.8.96	12.40	1		98½	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	107½	.50½		✓			98½	.45

	Candles per H. P.
At 16 Candles.	269
At 27½ Candles.	377

ORDER No. 151 Ed. #19

At 27½ Candles. Test Started 10.30 am 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	110	.49¾	Fell down 7.10 pm 12.17.96	100 —			101	.44¼
2	108	.50		100 —			98½	.44¾
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	109	.4987		100 —			99¾	.445

	Candles per H. P.
At 16 Candles.	269
At 27½ Candles.	377

20	1 p.m. 12.9.96				10 a.m. 12.11.96				3 p.m. 12.14.96				~~7.10 p.m. 12.17.96~~											
	20				40				60				~~40~~											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	—			—	—			—	—			—												
2	.50			23 3/4	.49			19 1/2	.46 1/2			19												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				23 3/4				19 1/2				19												
%				83.3				68.4				66.7												

21	1 p.m. 12.9.96				10 a.m. 12.11.96				3 p.m. 12.14.96				7.10 p.m. 12.17.96											
0000 L.	20				40				60				100											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49			24 1/2	.48			21	.47 1/2			19	—			—								
2	.49 3/4			24	.49			20 1/2	.48			19	.46 3/4			16								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				24.12				20.62				19				16								
%				86.2				73.6				67.9				57.2								

ORDER No. 152 Ed: #20

At 28½ Candles. Test Started 10.30 a.m. 12.5.96

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (minutes)	Order of breaking.		At 16 Candles. Volts.	Amperes.
1	114	.50¼	8.55 a.m. 12.8.96	3.25	1		104	.44
2	110½	.50½	9.20 a.m. 12.15.96	64.40	2		100½	.44½
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	112¼	.5038		34.02			102¼	.4425

1 2

	Candles per H. P.
At 16 Candles.	264
At 28½ Candles.	376

ORDER No. 153 Ed: #21

At 28 Candles. Test Started 10.30 a.m. 12.5.96

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (minutes)	Order of breaking.		At 16 Candles. Volts.	Amperes.
1	109¼	.50	7.45 a.m. 12.15.96	63.05	1		100¼	.44½
2	109	.50½	4.30 P.M. 2-8-97	578.15	2		100	.44¾
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	109.12	.5025					100.12	.446

1 2

	Candles per H. P.
At 16 Candles.	267
At 28 Candles.	378

23	1pm. 12.9.96 20				10am. 12.11.96 40			
No	A			C.P.	A			C.P.
1.	.49½			22	.48			17⅞
2.	.49			18¼	.47½			14
Ave.				20.12				15.87
%				75.3				59.7

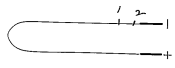
24 GOOD L.	1pm. 12.9.96 20				10am. 12.11.96 40				3pm. 12.14.96 60			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50½			22	.49½			18½	.48¾			16½
2	.50			22	.48¼			16¼	.47			14⅞
3												
4												
5												
6												
7												
8												
9												
10												
Ave.				22				17.38				15.42
%				78.6				62.1				55.9

Taken down 12/1/96

ORDER No. 154 Ed. #23

At $26\frac{3}{4}$ Candles. Test Started 10.30 am. 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	$106\frac{1}{2}$	.57	10.10 pm. 12.11.96	47.40	2		$98\frac{1}{4}$	$.45\frac{1}{2}$
2	$96\frac{1}{4}$	$.51\frac{1}{4}$	3.10 pm. 12.11.96	41.40	1		90	.47
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	101.38	.5112		44.40			94.12	.4625

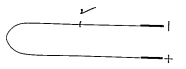


	Candles per H. P.
At 16 Candles.	274
At $26\frac{3}{4}$ Candles.	385

ORDER No. 155 Ed. #24

At 28 Candles. Test Started 10.30 am. 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	108	.57	7.40 pm 12.12.96	100			$98\frac{1}{2}$	.45
2	112	.57	8.15 am. 12.16.96	77.35	1		$101\frac{3}{4}$	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	110	.51	✓				100.12	.45



	Candles per H. P.
At 16 Candles.	266
At 28 Candles.	372

25	1 pm. 12.9.96				10 am. 12.11.96				3 pm. 12.14.96															
m/L	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50			23½	.49			19¾	.48			18												
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				23½				19¾				18												
%				51				68.1				62.1												

Incubator 7 pm - 12/17/96

26	1 pm. 12.9.96				10 am. 12.11.96				3 pm. 12.14.96				7.10 pm. 12.17.96											
	20				40				60				100											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.51			20¼	.50			19½	.49			17¾	.48½			15¼								
2	.49			24¾	.48			21	.47			19½	.45¾			16¾								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				22.62				20¼				18.62				16								
%				78.7				70.4				64.8				55.6								

ORDER No. 156 Ed. #26

At 29 Candles. Test Started 10.30 am. 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.	VOLTS.	AMPERES.
1	111¼	.51½	Sakundan 7.10pm 12.17.96	100.-		101	.45¼
2							
3							
4							
5							
6							
7							
8							
9							
10							
Avg.							

1 +

	Candles per H. P.
At 16 Candles.	261
At 29 Candles.	377

ORDER No. 157 Ed. #26

At 28¾ Candles. Test Started 10.30 am. 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.	VOLTS.	AMPERES.
1	108¼	.52	10.AM 1-19-97	378.05	2	98¾	.46
2	110	.50¼	8.40am. 12.28.96	175.30	1	100½	.45
3							
4							
5							
6							
7							
8							
9							
10							
Avg.	109.12	.5113				99.6	.455

1 2 +

	Candles per H. P.
At 16 Candles.	262
At 28¾ Candles.	385

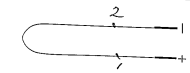
27	1 pm. 12.9.96.				10 am. 12.11.96				3 pm. 12.14.96				7.10 pm. 12.17.96			
	20				40				60				100			
№	A			C.P.	A			C.P.	A			C.P.	A			C.P.
1	–			–	–			–	–			–	–			–
2	.49			23	.48			19½	.47½			18¾	.46½			14½
Ave.				23				19½				18¾				14½
%				83.6				70				68.2				52.7

28	1 pm. 12.9.96				10 am. 12.11.96				3 pm. 12.14.96				7.10 pm. 12.17.96											
	20				40				60				100											
No.	A	R	V	C.P	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49½			22½	–				–				–											
2	.50			23¾	.49			19½	.48			17½	.46½			–								
3																14								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				23/2				19½				17½				14								
%				84.1				70.9				63.6				50.9								

ORDER No. 158 Ed. #27

At 27½ Candles. Test Started 10.30 am. 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	106¼	.57	2.40pm. 12.8.96	8.10	1		97	.45
2	109½	.50	1.30pm. 12.23.96	155.35	2		100½	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	107.87	.505		81.72			98.75	.45

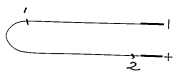


	Candles per H. P.
At 16 Candles.	269
At 27½ Candles.	371

ORDER No. 159 Ed. #28

At 27½ Candles. Test Started 10.30 am. 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	108½	.50¾	8.15am. 12.11.96	24.45	1		98½	.44¾
2	109¾	.50½	1.15pm. 1.6.97	259.20	2		99¾	.44¾
3								
4								
5								
6								
7								28 284.05 / 142.01
8								
9								
10								
Avg.	109.12	.5063		142.01			99.12	.4475



	Candles per H. P.
At 16 Candles.	269
At 27½ Candles.	371

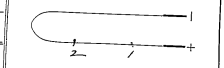
29	1 p.m. 12.9.96				10am. 12.11.96				3 p.m. 12.14.96				7.10 p.m. 12.17.96											
GOOD L.	20				40				60				100											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49½			24½	.48½			20	.48			18	.46½			14¾	—	—	—					
2	.49			23	.48½			19	.48			17½	.46½			14¼								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				23¾				19½				17¾				14½								
%				87.2				71.6				65.1				53.2								

30	1 p.m. 12.9.96				10 a.m. 12.11.96				3 p.m. 12.14.96				7.10 p.m. 12.17.96											
GOOD L.	20				40				60				100											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50			24¾	.49½			21	.48½			19½	.46½			18¾								
2	.51			23¾	.50			19½	.49			17½	—			—								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				24½				20½				18½				18¾								
%				83.6				69.8				63.8				54.3								

ORDER No. 160 Ed. #29

At 27¼ Candles. Test Started 10.30 am. 12.5.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.		At 16 Candles. Volts.	Amperes.
1	110¼	.49¼	8.30 am. 12.23.96	151.20	1		100¾	.44
2	109¼	.49½	11.15 am. 1.9.97	306.20	2		100	.44
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	109 3/24	.4938		228.50			100.38	.44

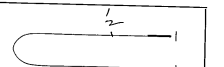


	Candles per H. P.
At 16 Candles.	270
At 27¼ Candles.	376

ORDER No. 161 Ed. 30

At 29 Candles. Test Started 10.30 am. 12.5.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.		At 16 Candles. Volts.	Amperes.
1	110	.52	5 pm. 12.30.96	205.35	2		100	.45 5/24
2	109½	.52½	7.40 am. 12.17.96	90.30	1		99½	.46
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	109¾	.5225		148.25			99¾	.459



	Candles per H. P.
At 16 Candles.	261
At 29 Candles.	377

31 1000 L.	1 pm. 12.9.96				10 am. 12.11.96				3 pm. 12.14.96															
	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49½			24½	.48½			19¾	.48			18½												
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				24½				19¾				18½												
%				87.5				70.5				66.1												

Jackson
12/17/96

32 1000 L.	1 pm. 12.9.96				10 am. 12.11.96				3 pm. 12.14.96				7.10 pm. 12.17.96											
	20				40				60				100											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50			24	.49			20	.48			18¾	.46¾			15								
2	.51			24½	.50			20	.49½			18	.48¾			15								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				24.12				20				18.12				15								
%				86.2				71.4				64.7				53.6								

ORDER No. 162 Ed. #31

At 28 Candles. Test Started 10.30 a.m. 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	109½	.57					100½	.45
2	107¾	.57¼	5.30 p.m. 12.8.96 (filament)	11.—	1		98	.45½
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	108.63	.5712	✓				99¼	.4525

—|
—+

	Candles per H. P.
At 16 Candles.	266
At 28 Candles.	375

bulb same as #44' - Same Range.

ORDER No. 163 Ed. #32

At 28 Candles. Test Started 10.30 a.m. 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	110¼	.50	3.00 p.m. 12.22.96	143.20	1		100	.44
2	111¼	.52	6.05 PM 1-21-97	412.10	2		101	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	110¾	.57					100½	.445

1 —|
2 —+

	Candles per H. P.
At 16 Candles.	267
At 28 Candles.	370

34	1 pm. 12.9.96				10 am. 12.11.96				3 pm. 12.14.96															
600 L.	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.48½			22	.47½			18½																
2	.47¾			23	.47			19½	.46			17½												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				22½				19.12				17½												
%				83.7				70.8				63.9												

Letter down
12/17/96

ORDER No. 164 Ed. #33

At 29 Candles. Test Started 10.30 a.m. 12.5.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.		Volts.	Amperes.
1	113½	.50	12.05 p.m. 12.5.96	1.35	1		103	.444
2	113	.51	12.30 p.m. 12.5.96	2.	2		103	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	113¼	.505		1.48			103	.445

	Candles per H. P.
At 16 Candles.	261
At 29 Candles.	377

ORDER No. 165 Ed. #34

At 27 Candles. Test Started 10.30 a.m. 12.5.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.		Volts.	Amperes.
1	108¾	.49½	10.40 a.m. 12.12.96	51.40	1		100	.44
2	109¼	.48½	7.10 p.m. 12.12.96 Taken down	100 —			101	.43½
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	109	.49		—			100½	.4375

	Candles per H. P.
At 16 Candles.	272
At 27 Candles.	378

35

No.	1 p.m. 12.9.96 20 A	R	V	C.P.	10 a.m. 12.11.96 40 A	R	V	C.P.	3 p.m. 12.14.96 60 A	R	V	C.P.	7.10 p.m. 12.17.96 100 A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49½			25½	.48½			.21	.48			.19	.44¼			15¾	—			—				
2	.50¼			24½	.45½			20½	.48¾			18¼	.47¾			15¼								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				25				20¾				18¼				15½								
%				89.5				74.1				66.5				55.4								

36

No.	1 p.m. 12.9.96 20 A	R	V	C.P.	10 a.m. 12.11.96 40 A	R	V	C.P.	3 p.m. 12.14.96 60 A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50			24	.49			20	.48			16¼	—			—								
2	.53½			23	.52¼			19¾	.52			18¼												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				23½				19.87				18½												
%				78.3				66.2				61.7												

Tendon broken
4/10/96

ORDER No. 166 Ed. # 35

At 28 Candles. Test Started 10.30 am. 12.5.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life. (Minutes)	Order of Breaking.		Volts.	Amperes.
1	109½	.50	10 a.m. 12.18.96	106.20	1		100	.44
2	111½	.57	8.05 a.m. 1.4.97	231.55	2		102	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	110½	.505		169.07			101	.445

1 — 1
2 — +

	Candles per H. P.
At 16 Candles.	266
At 28 Candles.	375

ORDER No. 167 Ed. # 36

At 30 Candles. Test Started 10.30 a.m. 12.5.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life. (Minutes)	Order of Breaking.		Volts.	Amperes.
1	111	.52	7.50 a.m. 12.15.96	63.10	1		101	.45½
2	108	.54	Taken down 12/7/96 7.30 p.m.	100.—			98¼	.48
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	109½	.53		—			99.62	.4675

1 — 1
— +

	Candles per H. P.
At 16 Candles.	256
At 30 Candles.	387

37

	1 p.m. 12.9.96				10 a.m. 12.11.96				3 p.m. 12.14.96															
	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	–			–	–			–	–			–												
2	.50			20¾	.49¾			18½	.48½			16												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				20¾				18½				16												
%				71.6				63.8				55.2												

38

	1 p.m. 12.9.96				10 a.m. 12.11.96				3 p.m. 12.14.96				7.10 p.m. 12.17.96											
(000 L.)	20				40				60				100											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.51			21½	.50			20	.49½			18¾	.48¾			16½								
2	.49½			24¾	.49			21	.48			19½	.46¾			16½								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				23.12				20½				19				16½								
%				81.1				71.9				66.7				57								

ORDER No. 168 Ed. #37

At 29 Candles. Test Started 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.	VOLTS.	AMPERES.
1	112½	.50	3.20pm. 12.8.96	8.50	1	102¾	.44½
2	108	.52¼	5.15pm. 12.15.96	71.35	2	99	.46¾
3							
4							
5							
6							
7							
8							
9							
10							
Avg.	110¼	.5112		40.12		100.87	.454

1 2 +

	Candles per H. P.
At 16 Candles.	261
At 29 Candles.	383

ORDER No. 169 Ed. #38

At 28½ Candles. Test Started 10.30 am. 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.	VOLTS.	AMPERES.
1	108½	.52½	8.30am. 1.12.97	316.05	2	98¾	.46¾
2	108¼	.50½	3.50pm. 12.18.96	111.10	1	98½	.45
3							
4							
5							
6							
7							
8							
9							
10							
Avg.	108.38	.515		213.38		98.62	.459

2 1 +

	Candles per H. P.
At 16 Candles.	264
At 28½ Candles.	382

40	1 p.m. 12.9.96				10 a.m. 12.11.96				3 p.m. 12.12.96				7.10 p.m. 12.17.96											
	20				40				60				100											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	$\bar{.50}$			$\bar{24\frac{3}{4}}$	$\bar{.49}$			$\bar{20\frac{1}{2}}$	$\bar{.48\frac{1}{2}}$			$\bar{18\frac{3}{4}}$	$\bar{.47\frac{1}{4}}$			$\bar{15\frac{3}{4}}$								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				$24\frac{3}{4}$				$20\frac{1}{2}$				$18\frac{3}{4}$				$15\frac{3}{4}$								
%				88.4				73.2				67				56.3								

ORDER No. 170 Ed. #40

At 28 Candles. Test Started 10.30 am. 12.5.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life. (Minutes)	Order of Breaking.		Volts.	Amperes.
1	113½	.48	1.20 pm. 12.8.96	6.50	1		103½	.43
2	110¼	.50½	2.50 pm. 1.12.97	321.25	2		100½	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	111.87	.4925		164.07			102	.44

	Candles per H. P.
At 16 Candles.	266
At 28 Candles.	378

ORDER No. 171 Ed. #41

At 27½ Candles. Test Started 10.30 am. 12.5.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life. (Minutes)	Order of Breaking.		Volts.	Amperes.
1	112¾	.48½	9.50 am. 12.8.96	4.20			103¼	.43
2								
3								
4								
5								
6								
7								
8								
9								
10								
Avg.				4.20				

	Candles per H. P.
At 16 Candles.	269
At 27½ Candles.	371

42 1000 L.	1 p.m. 12.9.96 20																							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49½			18																				
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				18																				
%				55.4																				

43 1000 L.	1 p.m. 12.9.96 20				10 a.m. 12.11.96 40				3 p.m. 12.14.96 60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.48			22½	.47			17	.46½			16½												
2	.46			21½																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				22				17				16½												
%				80				61.8				60.9												

Taken down 12/12/96

ORDER No. 172 Ed. #42

At 32½ Candles. Test Started 10.20 a.m. 12.5.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (minutes)	Order of breaking.		Volts.	Amperes.
1	118½	.56	7.35 p.m. 12.9.96	20.40	2		105	.47½
2	114¼	.56	2.30 p.m. 12.8.96	8.—	1		101¼	.47½
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	116.38	.56		14.20			103.12	.475

	Candles per H. P.
At 16 Candles.	243
At 32½ Candles.	370

ORDER No. 173 Ed. #43

At 27½ Candles. Test Started 10.30 a.m. 12.5.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (minutes)	Order of breaking.		Volts.	Amperes.
1	109	.50	Taken down 12/7/96 7.10 p.m.	100.—			99¾	.45
2	109	.49	7.55 a.m. 12.10.96	24.25	1		100	.44
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	109	.495		—			99.88	.445

	Candles per H. P.
At 16 Candles.	269
At 27½ Candles.	379

44

	1 p.m. 12.9.96				10 a.m. 12.11.96																			
	20				40																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	–			–	–			–																
2	$147\frac{3}{4}$			$24\frac{3}{4}$	$46\frac{1}{2}$			21																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				$24\frac{3}{4}$				21																
%				90.5				77																

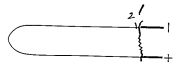
45

	1 p.m. 12.9.96				10 a.m. 12.11.96																			
	20				40																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50			20	$.48\frac{1}{2}$			15																
2	$.51\frac{3}{4}$			16																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				18				15																
%				54.5				45.5																

ORDER No. 174 Ed: #44

At 27¼ Candles. Test Started 10.30 a.m. 12.5.96

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (Minutes)	Order of breaking.		At Candles. Volts.	Amperes.
1	108	.50½	3.30 p.m. 12.8.96	9.00	1		98½	.44
2	110	.50	10.30 a.m. 12.14.96	56.10	2		100½	.44½
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	109	.5025		32.35			99½	.4425



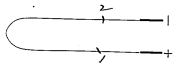
	Candles per H. P.
At 16 Candles.	270
At 27¼ Candles.	365

Broke before burnt 2 p.m. 12 p.m. 12 p.m.

ORDER No. 175 Ed: #45

At 33 Candles. Test Started 10.30 a.m. 12.5.96

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (Minutes)	Order of breaking.		At 16 Candles. Volts.	Amperes.
1	113¼	.54	8.20 p.m. 12.11.96	45.50	2		100½	.46
2	120	.58	8.45 p.m. 12.9.96	22.15	1		106½	.50
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	116.62	.56		34.02			103½	.48



	Candles per H. P.
At 16 Candles.	240
At 33 Candles.	376

46	1 p.m. 12.9.96				10 a.m. 12.11.96																			
	20				40																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.52½			21¾	.51½			18																
2	.51½			23½																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				22.42				18																
%				77.3				61.5																

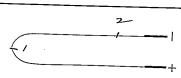
47	1 p.m. 12.9.96				10 a.m. 12.11.96				3 p.m. 12.14.96															
	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50			23½	.49			19	.48			17¼												
2	.54¼			23	.52½			19½	.51½			17¾												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				23¼				19¼				17½												
%				80.2				66.4				60.3												

Lathrop
12/17/96

ORDER No. 176 Ed. #46

At 29¼ Candles. Test Started 10.30 a.m. 12.5.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (minutes)	Order of breaking.		Volts.	Amperes.
1	108	.54	2.50 p.m. 12.14.96	59.50	2		97½	.47
2	111	.53½	7.15 a.m. 12.10.96	23.45	1		100½	.46¼
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	109½	.5375		41.47			99	.4662

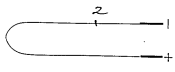


	Candles per H. P.
At 16 Candles.	259
At 29¼ Candles.	371

ORDER No. 177 Ed. #47

At 29 Candles. Test Started 10.30 a.m. 12.5.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (minutes)	Order of breaking.		Volts.	Amperes.
1	109½	.50¾	Taken down 12.17.96 7.10 p.m.	100 —			99¼	.45
2	108	.54	10.10 p.m. 12.16.96	89.20	1		97½	.48
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	108¾	.5237		—			98.38	.465



	Candles per H. P.
At 16 Candles.	261
At 29 Candles.	389

48	1 p.m. 12.9.96				10 a.m. 12.11.96				7.10 p.m. 12.14.96											
	20				40				60											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49½			20	.48½			18	.47½			16½								
2	.49½			20½	.48½			18½	—			—								
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
Ave.				20½				18.12				16½								
%				49.8				64.7				58								

Tak. [illegible]

49	1 p.m. 12.9.96				10 a.m. 12.11.96				3 p.m. 12.14.96				7.10 p.m. 12.17.96							
	20				40				60				100							
No.	A	R	V	C.P	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	—			—	—			—	—			—	—			—				
2	.50½			23½	.50			19½	.49½			18½	.47½			15				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
Ave.				23½				19½				18½				15				
%				53.2				69				64.6				53.1				

ORDER No. 178 Ed. #48

At 28 Candles. Test Started 10.30 a.m. 12.5.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking		Volts.	Amperes.
1	108½	.50½	Taken down 12/11/96 1.10 p.m.	100			98¾	.45
2	107½	.57	11.55 a.m. 12.12.96	52.55	1		98¼	.46
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	108	.5075					98½	.455

	Candles per H. P.
At 16 Candles.	266
At 28 Candles.	381

ORDER No. 179 Ed. #49

At 28¼ Candles. Test Started 10.30 a.m. 12.5.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking		Volts.	Amperes.
1	109	.49	11.45 a.m. 12.9.96	19.45	1		99	.44
2	111½	.52	10.05 p.m. 1.6.97	267.10	2		101¾	.46
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	110¼	.505		143.27			100.38	.45

	Candles per H. P.
At 16 Candles.	264
At 28¼ Candles.	379

50 mgs.	1 p.m. 12.9.96				10 a.m. 12.11.96				3 p.m. 12.14.96															
	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49			23¾	.48			19¼	.47			17												
2	.47¾			20½	–			—																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				22.12				19¼				17												
%				79				68.7				60.7												

Jackenthorn
7 p.m. 12 11 96

200	9.15 a.m. 12.19.96				8 a.m. 12.22.96				11.40 a.m. 12.28.96															
	22½				40				80															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	—			—					–	–		–												
2	.31			11	.30			10	.29½			9												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				11				10				9												
%				62.9				57.1				51.4												

ORDER No. 180 Ed. #50

At 28 Candles. Test Started 10.30 a.m. 12.5.96

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.	At 16 Candles. VOLTS.	AMPERES.
1	110	.50½	Fallen down 12.17.96 7.10 p.m.	100		100½	.45
2	108	.51	5.35 p.m. 12.10.96	31.05	1	98½	.45
3							
4							
5							
6							
7							
8							
9							
10							
Avg.	109	.5075	—			99½	.45

	Candles per H. P.
At 16 Candles.	266
At 28 Candles.	378

ORDER No. 181 Ed. 205 Ba

At 17½ Candles. Test Started 3.15 p.m. 12.17.96

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.	At 16 Candles. VOLTS.	AMPERES.
1	103¾	.34	9.35 p.m. 12.17.96	5.20	2	102	.33
2	104	.33½	12 m. 1.2.97	130.15	3	102½	.33
3	103¾	.34	8.05 p.m. 12.17.96	4.30	1	102	.33
4							
5							
6							
7							
8							
9							
10							
Avg.	103.83	.338		46.42		102.17	.33

	Candles per H. P.
At 16 Candles.	354
At 17½ Candles.	371

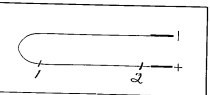
205H	9.15 a.m. 12.19.96				8 a.m. 12.22.96				11.40 a.m. 12.28.96															
	22.30				40				80															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.31			11	.30			9 4/7	.29 1/7			8 4/7												
2	.31			10 2/7	.30 1/2			9 4/7	.30			8 4/7												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				10.87				9 4/7				8 4/7												
%				65.3				55.5				49.5												

205H	9.15 a.m. 12.19.96				8 a.m. 12.22.96				11.40 a.m. 12.28.96				10 a.m. 12.31.96											
	22 1/2				40				80				112'45"											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.28 1/2			9	.28			8 4/7	.28			7 5/7	.27 1/2			7 1/2								
2	.28			7	.27 3/4			6 3/4	.27			6 1/2	.27			6								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				8				7 1/2				7.12				6 3/4								
%				100				93.8				89.1				84.4								

ORDER No. 182 Ld. 205 H

At $16\frac{2}{3}$ Candles. Test Started 3.15 Pm. 12.17.96

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		At 16 Candles. VOLTS.	AMPERES.
1	$101\frac{1}{4}$	.33	7.15 PM 2-1-97	330.00	2		$100\frac{1}{4}$	$.32\frac{1}{2}$
2	$101\frac{1}{4}$	$.33\frac{1}{2}$	1-45 PM 1-27-97	324.15	1		100	$.32\frac{1}{2}$
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	$101\frac{1}{4}$	.3325					100.12	.3225

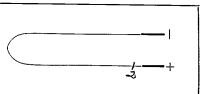


	Candles per H. P.
At 16 Candles.	366
At $16\frac{2}{3}$ Candles.	362

ORDER No. 183 Ld. 205 I

At Candles. Test Started 3.15 Pm. 12.17.96

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		At 8 Candles. VOLTS.	AMPERES.
1							$96\frac{1}{4}$	$.27\frac{1}{4}$
2			11.25 AM. 2-25-97	738.25	1		$93\frac{1}{2}$	.29
3								
4								
5								
6								
7								
8								
9								
10								
Avg.							94.87	.2812



	Candles per H. P.
At 8 Candles.	224
At Candles.	

208th	9.15 am. 12.19.56				8 am. 12.22.56			11.40 am. 12.28.56															
	22½				40			80															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.32			11½	.31½			10¼	.30¾			9¼											
2	.31½			11	.30¾			9½	.30			8¼											
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
Ave.				11¼				9.87				8¾											
%				65.2				57.2				50.7											

ORDER No. 184 Sd: 205 J

At 22 Candles. Test Started 3.15 pm. 12.17.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	124¼	.35½	4.10 pm. 12.17.96	.55	1		116½	.33
2								
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	124¼	.35½		.55			116½	.33

	Candles per H. P.
At 16 Candles.	310
At 22 Candles.	372

ORDER No. 185 Sd. 205 K

At 17¼ Candles. Test Started 3.15 pm. 12.17.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	105		4.20 pm. 1.12.97	209.05	1		103	.33
2	102		11.50 am. 1.14.97	231.35	2		100¼	.33
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	103½			220.20			101.62	.33

	Candles per H. P.
At 16 Candles.	355
At 17¼ Candles.	369

20 Sept. L.	10.30 am. 12.18.96				8.30 am 12.22.96																			
	20				40																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.31 2/7			13	.30 4/7			10 2/7																
2	.31 1/2			11 1/2	.30			10																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				12 1/4				10 4/7																
%				45.8				38.3																

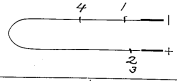
44 Good L.	11 am. 12.29.96				10 am. 12.31.96																			
	20				40.20"																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.48 1/2			24 3/4	.47			21																
2	.47			23																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				23.88				21																
%				82.3				72.4																

ORDER No. 186 Ed: 205 I

At 1½ Watts

At 26¾ Candles. Test Started 3.15 pm. 12.17.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	110	.37½	1.15 pm. 12.22.96	43.05	3		100½	
2	111	.37	8.35 am 12.18.96	8.05	1		101	
3	110¼	.36	8.45 pm 12.18.96	17.45	2		100½	
4	108½	.36½	10.30 am 12.24.96	71.20	4		99	
5								
6								
7								
8								
9								
10								
Avg.	109.94	.3675		37.54			100¼	.32¼

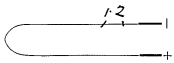


	Candles per H. P.
At 16 Candles.	370
At 26¾ Candles.	495

ORDER No. 187 Ed 44 A

At 29 Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	110¼	.52	10.50 am 1.4.97	61.55	2		100½	.45½
2	112¾	.51	2.45 pm 12.29.96	20.35	1		102¼	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	111½	.51½		41.15			101.37	.45¼



	Candles per H. P.
At 16 Candles.	261
At 29 Candles.	377

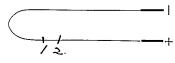
51	11 a.m. 12.29.96				10 a.m. 12.31.96																			
600 L.	20				40' 10"																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50			23	.48 3/4			18 1/2																
2	.49			21 1/2	.47			17 1/4																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				22 1/4				17.87																
%				76.7				61.6																

52	11 a.m. 12.29.96																							
600 L.	20																							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.52			22 1/2																				
2	.53			20 1/2	—			—																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				21 1/2																				
%				67.7																				

ORDER No. 188 Ed. #57

At 29 Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	113	.57¼	9 am. 1.15.97	168.35	1		102½	.45
2	112	.57	9.30 AM 1-22-97	230.20	2		101¾	.44½
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	112½	.5712					102.12	.44¾



	Candles per H. P.
At 16 Candles.	261
At 29 Candles.	377

ORDER No. 189 Ed. #52

At 31¾ Candles. Test Started 2.15 pm 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	112½	.54 3/16	6.05 pm. 1-6.97	91.25	2		101½	.47
2	115½	.56	11.50 am Jan. 1.97	52.55	1		103	.47¾
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	114	.5538		72.10			102¼	.4738

	Candles per H. P.
At 16 Candles.	246
At 31¾ Candles.	375

S3 11 a.m. 12.29.96
Gill s. 20

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	47			19½																				
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				19½																				
%				667																				

ORDER No. 190 Ed. #53

At 29¼ Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	109¾	.53	4.10 pm. 12.30.96	32.—	2		99¼	.46¾
2	111	.52	2.35 pm. 12.28.96	9.50	1		100¾	.45½
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	110.38	.52½		20.55			100	.4612

	Candles per H. P.
At 16 Candles.	259
At 29¼ Candles.	377

N.B. 191 - Ed. 54 - Too high for reading -

ORDER No. 192. Ed. 55

At 29½ Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	112	.53	3.30 pm. 12.24.96	1.15	1		101	.46
2								
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	112	.53		1.15			101	.46

Burnt'd

	Candles per H. P.
At 16 Candles.	258
At 29½ Candles.	372

Ared

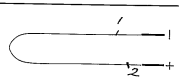
56	11 a.m. 12.29.96																							
6500 L.	20																							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.48			23 1/4																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				23 1/4																				
%				78.8																				

57	11 a.m. 12.29.96				10 a.m. 12.31.96																			
	20				40.20																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.48			22	.46 1/2			19 1/2																
2	.48			22 1/2	.46 1/2			18 3/4																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				22.12				18 3/4																
%				76.9				65.2																

ORDER No. 193 Ed. 56

At 29½ Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	113½	.50¾	10.20 am. 12.28.96	6.35	1		103	.44
2	112½	.52¼	3.45 pm. 12.29.96	21.35	2		102½	.46
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	113.–	.51½		14.05			102¾	.45

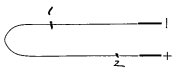


	Candles per H. P.
At 16 Candles.	258
At 29½ Candles.	378

ORDER No. 194 Ed. #57

At 28¾ Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	115	.49	11.10 am. 1.7.97	99.15	2		105	.43½
2	113¼	.49	10.50 am. 1.5.97	71.10	1		104	.43½
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	114.12	.49		85.12			104½	.43½



	Candles per H. P.
At 16 Candles.	262
At 28¾ Candles.	382

58 11am. 12.29.96

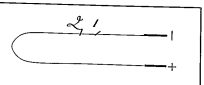
20

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50			21½																				
2	.51			22¼																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				21¾																				
N				707																				

ORDER No. 195 Ed: 58

At 30 3/4 Candles. Test Started 2.15 pm. 12.24.56 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	114 3/4	.53	4.10 pm. 12.30.56	32	1		103 1/4	.46
2	114 1/4	.53	1:15 AM 1-26-57	26235	2		103	.46
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	114 1/2	.53					103.12	.46

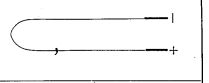


	Candles per H. P.
At 16 Candles.	251
At 30 3/4 Candles.	378

ORDER No. 196 Ed. 59

At 29 3/4 Candles. Test Started 2.15 pm. 12.24.56 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	120 1/2	.49 1/4	8.20 am 12.28.56	4.35	1		109	.42 3/4
2								
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	120 1/4	.49 1/4					109	.42 3/4



	Candles per H. P.
At 16 Candles.	256
At 29 3/4 Candles.	375

61 11am. 12.29.96

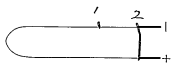
20

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49			22																				
2	.47			18½																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avs.				20½																				
%				69.8																				

ORDER No. 197 Ed: #60

At $29\frac{3}{4}$ Candles. Test Started 2.15 p.m. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	$112\frac{1}{2}$	$.51\frac{3}{4}$	11 a.m. 12.29.96	20.00	2		$101\frac{3}{4}$	.45
2	117	.53	3.05 p.m. 12.24.96	.50	1		105	$.45\frac{1}{4}$
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	$114\frac{3}{4}$	.5238		10.25			103.37	.4512



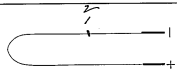
	Candles per H. P.
At 16 Candles.	256
At $29\frac{3}{4}$ Candles.	369

Cred

ORDER No. 198 Ed: 61

At 29 Candles. Test Started 2.15 p.m. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	$110\frac{1}{4}$	.53	11.15 a.m. 1.4.97	62.20	1		$99\frac{1}{4}$	$.45\frac{3}{4}$
2	$112\frac{1}{2}$	.51	11.20 a.m. 1.9.97	120.10	2		102	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	111.38	.52		91.15			100.62	.45



	Candles per H. P.
At 16 Candles.	261
At 29 Candles.	374

62

	11am.12.29.96				10am.12.31.96																			
	20				40.20																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.48½			22½	.47			19																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				22½				19																
%				77.4				66.1																

63

	11am.12.29.96																							
	20																							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.48			21½																				
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				21½																				
%				74.8																				

ORDER No. 199 Ed. 62

At $28\frac{3}{4}$ Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	Too high.							
2	$114\frac{1}{4}$	$.50\frac{1}{4}$	4.05 pm. 12.31.96	43.55	1		$103\frac{1}{2}$	.44
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	$114\frac{1}{4}$	$.50\frac{1}{4}$		43.55			$103\frac{1}{2}$	.44

	Candles per H. P.
At 16 Candles.	262
At $28\frac{3}{4}$ Candles.	374

ORDER No. 200 Ed: 63

At $28\frac{3}{4}$ Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	$115\frac{1}{2}$	.50	2.50 pm. 1.20.97	208.50	2		105	$.43\frac{3}{4}$
2	115	.49	1.30 pm. 12.28.96	8.45	1		$104\frac{1}{4}$	.43
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	$115\frac{1}{4}$	$.49\frac{1}{2}$					104.62	.4338

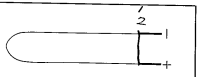
	Candles per H. P.
At 16 Candles.	262
At $28\frac{3}{4}$ Candles.	377

65 600 L.	11 a.m. 12.29.96				10 a.m. 12.31.96																			
	20				40' 20"																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.82			23 5/7	.81			21 3/7																
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				23 5/7				21 3/7																
%				80.3				74.4																

ORDER No. 201 Ed. 64

At 31 Candles. Test Started 2.15 p.m. 12.24.86 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		Volts.	Amperes.
1	118	.52	4.40 p.m. 12.24.86	2.25	2		105½	.44
2	119½	.53	2.45 p.m. 12.24.86	.30	1		107¾	.45¾
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	118¾	.525		1.28			106.62	.4488



	Candles per H. P.
At 16 Candles.	250
At 31 Candles.	372

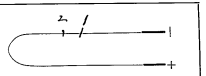
Cand

Cand

ORDER No. 202 Ed. 65

At 29¼ Candles. Test Started 2.15 p.m. 12.24.86 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		Volts.	Amperes.
1	110½	.53	2.20 PM 1-25-87	2252.55	2		100	.46
2	114	.52	7.15 am. 12.29.86	16.15	1		103	.44¾
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	112¼	.515					101½	.4537



	Candles per H. P.
At 16 Candles.	259
At 29¼ Candles.	377

66 | 10 a.m. 12.29.96
EQUIL. 20

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50½			20	—			—																
2	.50			21																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				20½																				
%				67.2																				

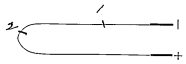
67 | 11 a.m. 12.29.96 | 10 a.m. 12.31.96
EQUIL. 20 | 40' 20"

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50			21¾	.49			20																
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				21¾				20																
%				75.1				69.6																

ORDER No. 203 Ed: # 66

At 30½ Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	114¾	.52	10.30 pm. 1-5-97	81.20	1	.	103	.45½
2	117	.53	3.10 pm. 1.6.97	88.30	2		104½	.45½
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	115.88	.525		84.55			103¾	.45½

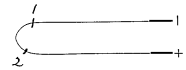


	Candles per H. P.
At 16 Candles.	253
At 30½ Candles.	375

ORDER No. 204 Ed: # 67

At 28¾ Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	111	.51	10.00 AM 12-1-97	217.50	2		102	.45¼
2	117¾	.48	3.35 pm 12.24.96	7.20	1		106	.42
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	114.38	.495					104	.4368



	Candles per H. P.
At 16 Candles.	262
At 28¾ Candles.	379

69 Wgt. L. 20 | 11 a.m. 12.29.96 | 10 a.m. 12.31.96 | 40'.20"

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49			24	.47½			19½																
2	.52			23	.50½			21																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				23½				20½																
%				50.3				69.2																

71 Wgt. L. 20 | 11 a.m. 12.29.96 | 10 a.m. 12.31.96 | 40'.20"

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	50½			22	.49			19½	—			—												
2	51			22½	.50			21½																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				22.37				20½																
%				75.8				69.5																

ORDER NO. 205 Ed: #69

At 29 1/4 Candles. Test Started 2.15 Pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	114 3/4	.49 3/4	9.50 am. 1.12.97	131.10	1		104	.43 1/2
2	111 1/2	.53	2.15 PM 1-26-97	963.35	2		101	.46 1/2
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	113.12	.5138					102 1/2	.45

	Candles per H. P.
At 16 Candles.	259
At 29 1/4 Candles.	374

ORDER NO. 206 Ed: #71

At 29 1/2 Candles. Test Started 2.15 Pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	112 1/2	.52	8.45 am. 1-16-97	181.20	1		102	.45 1/2
2	110 1/4	.52 3/4	12.30 PM 2-5-97	371.05	2		100 1/4	.46
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	111.38	.5237					101.12	.45 3/4

	Candles per H. P.
At 16 Candles.	258
At 29 1/2 Candles.	378

72 (1000 L.) | 11 a.m. 12.29.31 | 10 a.m. 12.31.96
20 | 40' 20"

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49			22½	.48			19¾																
2	.49			22	.47½			19																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				22¼				19.38																
%				79.5				69.2																

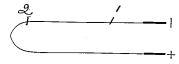
73 (1000 L.) | 11 a.m. 12.29.96 | 10 a.m. 12.31.96
20 | 40' 20"

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50			23½	.48			18¾																
2	.48			23	.46½			21																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				23.12				19.62																
%								66.5																

ORDER No. 207 Ed: #72

At 28 Candles. Test Started 2.15 pm. 12.24.86 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	111½	.50	9.35 am 2-1-97	3161.10	2		101¾	.44
2	111¾	.50	5.15 PM 1-31-97	2250.05	1		102	.44¼
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	111.62	.50					101.87	.4412

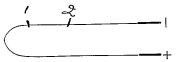


	Candles per H. P.
At 16 Candles.	266
At 28 Candles.	375

ORDER No. 208 Ed: 73

At 29½ Candles. Test Started 2.15 pm. 12.24.86 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	113	.51	3.40 pm. 1.13.97	148.-	1		103	.45
2	114	.49½	2.15 PM 1-28-97	289.50	2		104½	.44
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	113½	.50¼					103¾	.45½



	Candles per H. P.
At 16 Candles.	258
At 29½ Candles.	386

74 (100 L.) 11 am. 12.29.96 | 10 am 12.31.96
20 | 40' 20"

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.48			22¼ .474				20¾																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avs.				22¼				20¾																
%				77.6				71.6																

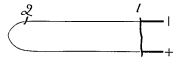
75 (100 L.) 11 am. 12.29.96
20

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50			18¾																				
2	.42			20½																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avs.				19½																				
%				66.5																				

ORDER No. 209 Ed. #74

At 29 Candles. Test Started 2.15 p.m. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	114¼	.50¾	5.25 p.m. 12.24.96	3.10	1		104	.44½
2	113¾	.50	10.55 AM 1-25-97	249.30	2		103	.44
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	114	.5038					103½	.44¼



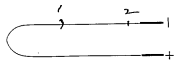
	Candles per H. P.
At 16 Candles.	261
At 29 Candles.	377

Ord'd

ORDER No. 210 Ed. 75

At 29½ Candles. Test Started 2.15 p.m. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	114¾	.53½	11.40 a.m. 1.6.97	86. –	2		102	.45¼
2	116½	.51	5.30 p.m. 1.5.97	77.20	1		105	.44½
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	115.62	.52¼		81.40			103½	.4488



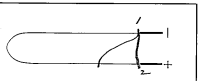
	Candles per H. P.
At 16 Candles.	258
At 29½ Candles.	366

77 Rect.	11 am 12.29.96 20																							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.51			21																				
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				21																				
%				67.2																				

ORDER No. 211 Ed. #76

At 29 Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	115	.50 1/2	3.55 pm. 12.24.96	1.40	1		104 1/3	.44 1/4
2	112 1/4	.51	2.15 pm. 12.28.96	9.30	2		101 3/4	.44 3/4
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	113.68	.50 3/4		5.35			103.12	.44 1/2



	Candles per H. P.
At 16 Candles.	261
At 29 Candles.	374

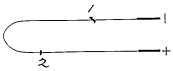
Are'd

d

ORDER No. 212 Ed. 77

At 32 Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	115 1/4	.55 1/2	11.20 am 12.30.96	28.10	2		102	.47
2	119	.55 1/4	5.30 pm 12.28.96	12.45	1		105 1/2	.47
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	117.12	.5538		20.27			103 3/4	.47



	Candles per H. P.
At 16 Candles.	245
At 32 Candles.	368

79 Rock 1. 11 a.m. 12.29.96

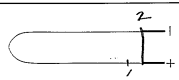
20

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49			21¾																				
2	.50			18	—			—																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				19.87																				
%				62.1																				

ORDER No. 213 Ed: #78

At $32\frac{2}{3}$ Candles. Test Started 2.15 p.m. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	122	.54	10.15 a.m. 12.28.96	6.30	2		$108\frac{3}{4}$	$.45\frac{1}{2}$
2	$118\frac{1}{2}$	$.55\frac{1}{4}$	8.25 p.m. 12.24.96	3.10	1		105	$.46\frac{3}{4}$
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	$120\frac{1}{4}$	.546		4.50			106.87	.4612



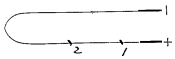
	Candles per H. P.
At 16 Candles.	242
At $32\frac{2}{3}$ Candles.	372

Ord'd

ORDER No. 214 Ed: #79

At 32 Candles. Test Started 2.15 p.m. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	$116\frac{1}{2}$	$.56\frac{3}{4}$	8.55 a.m. 1.5.97	69.15	2		$103\frac{1}{4}$	$.47\frac{3}{4}$
2	119	$.53\frac{1}{2}$	3.20 p.m. 1.4.97	65.25	1		106	$.45\frac{1}{2}$
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	$117\frac{3}{4}$	.5512		67.20			104.62	.4662



	Candles per H. P.
At 16 Candles.	245
At 32 Candles.	368

80
1000 L.

11 a.m. 12.29.96 10 a.m. 12.31.96

20 40' 20"

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.52			24	.504			21																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				24				21																
%				79.3				69.4																

ORDER No. 215 Ed. # 80

At 30¼ Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	115½	.52¾	4.20 pm. 12.28.96	11.35	1		103	.45
2	113	.53½	7.45 pm. 1.11.97	127.20	2		102	.46½
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	114¼	.5312		69.27			102½	.45¾

V

	Candles per H. P.
At 16 Candles.	254
At 30¼ Candles.	372

ORDER No. 216 Ed. 81

At 29¾ Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	118¼	.50½	9.25 pm. 12.28.96	14.10	1		106½	.44
2	114	.52	Taken down 12.29.96 11 am	20.–	2		103	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	116.12	.51¼		17.05			104¾	.44½

	Candles per H. P.
At 16 Candles.	256
At 29¾ Candles.	372

Aged

Dropped to 6¼ C.P.

Candles per H. P.

264

379

82 | 11 a.m. 12.29.96 | 10 a.m. 12.31.96

6000 L. | 20 | 40 : 20"

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49½			22	.48¾			20¾																
2	.46½			22½	.45¾			20																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				22¾				20.38																
%				78.1				71.5																

Candles per H. P.

259

371

83 | 11 a.m. 12.29.96

6000 L. | 20

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49			23																				
2	.49			19¾																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				21.12																				
%				72.2																				

ORDER No. 217 Ed. #82

At 28½ Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	110¼	.51¾	4.45 pm 1.7.97	103.50	2		101	.45¾
2	110¼	.49¾	4.15 pm 1.4.97	66.20	1		101	.44
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	110¼	.50¾		85.05			101	.4488

½

	Candles per H. P.
At 16 Candles.	264
At 28½ Candles.	379

ORDER No. 218 Ed: 83

At 29¼ Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	111	.51	4.20 PM 1-20-97	210.10	2		100½	.45
2	114¾	.53	8.15 am. 1.2.97	54.05	1		103	.45¾
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	112.87	.52					101¾	.45¼

1 ✓

	Candles per H. P.
At 16 Candles.	259
At 29¼ Candles.	371

85	11am. 12.29.96				10am. 12.31.96																			
8000 L.	20				40.20"																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49			23	.48			19½																
2	.50½			23	.49½			18½	—		—													
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10								18.87																
Avg.				23				67.4																
%				82.1																				

ORDER No. 219 Ed: 84

At 29 Candles. Test Started 2.15 pm. 12.24.86 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	114 3/4	.50 1/2	4.40 pm 12.24.86	2.25	1		104	.44
2								
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	114 3/4	.50 1/2		2.25			104	.44

	Candles per H. P.
At 16 Candles.	261
At 29 Candles.	374

ORDER No. 220 Ed: 85

At 28 Candles. Test Started 2.15 pm. 12.24.86 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	108	.51 1/2	7.40 AM. 1.26.97	259.00	2		98	.45 1/2
2	109 3/4	.51 3/4	9.05 pm. 1.12.97	140.25	1		100	.45 1/4
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	108.88	.5162					99	.4538

	Candles per H. P.
At 16 Candles.	266
At 28 Candles.	372

86 | 11am. 12.29.96 | 10am. 12.3.96
20 | 40' 20"

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.48 3/4			23	.47			19 3/4																
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avc.				23				19 3/4																
%				80				68.7																

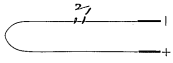
88 | 11am. 12.29.96
20

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.49			22 1/4																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avc.				22 1/4																				
%				78.1																				

ORDER No. 221 Ed: #86

At 28¾ Candles. Test Started 2.15 p.m. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	113	.50	10.30 a.m. 1-30-97	312.25	2		103	.43¾
2	111	.52	10.30 p.m. 12.28.96	15.15	1		101	.45¾
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	112	.51					102	44¾



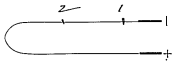
	Candles per H. P.
At 16 Candles.	262
At 28¾ Candles.	377

N.B. Order 222 - Ed #87 - Carbon broken by chemicals dripping thereon after placing on photometer

ORDER No. 223 Ed: #88

At 28½ Candles. Test Started 2.15 p.m. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	114	.50	4.40 p.m. 12.24.96	2.25	1		103¼	.43¾
2	111	.52	5.20 p.m. 12.30.96	33.10	2		100½	.45¼
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	112½	.51		17.47			101.87	.44½

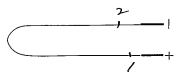


	Candles per H. P.
At 16 Candles.	264
At 28½ Candles.	370

ORDER No. 224 Ed. # 89

At $30\frac{3}{4}$ Candles. Test Started 2.15 p.m. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	117	.53	6.20 a.m. 12.28.96	4.35	2		105	$.45\frac{1}{4}$
2	113	$.53\frac{1}{4}$	4.40 p.m. 12.24.96	2.25	1		102	.46
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	115	.5312		3.50			$103\frac{1}{2}$	.4588

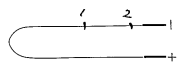


	Candles per H. P.
At 16 Candles.	251
At $30\frac{3}{4}$ Candles.	375

ORDER No. 225 Ed. # 90

At 32 Candles. Test Started 2.15 p.m. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	114	$.54\frac{3}{4}$	3.55 p.m. 12.24.96	1.40	2		$102\frac{1}{2}$	$.46\frac{3}{4}$
2	$115\frac{1}{4}$	.54	3.20 p.m. 12.24.96	1.05	1		105	.47
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	114.62	.5438		1.22			$103\frac{3}{4}$	.4688

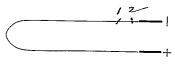


	Candles per H. P.
At 16 Candles.	245
At 32 Candles.	384

ORDER No. 226 Ed. #91

At $30\frac{1}{2}$ Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	$115\frac{3}{4}$	.53	1.30 pm. 12.28.96	8.45	2		103	$.45\frac{1}{2}$
2	$115\frac{3}{4}$	.54	8.10 am. 12.28.96	4.25	1		103	$.46\frac{1}{4}$
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	$115\frac{3}{4}$	.535		6.35			103	.4588

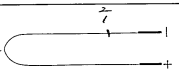


	Candles per H. P.
At 16 Candles.	253
At $30\frac{1}{2}$ Candles.	369

ORDER No. 227 Ed. #92

At $29\frac{1}{2}$ Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	$113\frac{1}{2}$	$.52\frac{3}{4}$	4.50 pm. 12.24.96	2.35	1		101	$.44\frac{3}{4}$
2	116	$.57\frac{3}{4}$	10.45 Am. 12.29.96	19.45	2		105	$.45\frac{1}{4}$
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	$114\frac{3}{4}$	$.52\frac{1}{4}$		11.10			103	.45



	Candles per H. P.
At 16 Candles.	258
At $29\frac{1}{2}$ Candles.	366

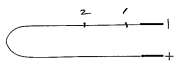
93 | 11 am. 12.29.96 | 10 am. 12.31.96
20 | 40' 20"

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49			23	.48			20																
2	.49			22½	.48			19	—			—												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				22¾				19½																
%				91.3				69.6																

ORDER No. 229 Ed. #94

At 31 Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	CHECK NO. OF BROKEN NO.		VOLTS.	AMPERES.
1	116¼	.53½	9 am. 12.28.96	5.15	2		105	.46¾
2	112	.55¾	8.10 am. 12.28.96	4.25	1		98½	.47
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	114.12	.546		4.50			101¾	.4688

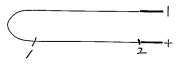


	Candles per H. P.
At 16 Candles.	250
At 31 Candles.	369

ORDER No. 228 Ed. # 93

At 28 Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	111 1/3	.50	4:00 PM 2-3-97	343.35	2		101 1/3	.44 1/2
2	108 3/4	.50 1/4	8:55 pm. 1.13.97	152.15	1		99 1/2	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	110.12	.501					100.38	.44 3/4

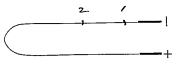


	Candles per H. P.
At 16 Candles.	266
At 28 Candles.	378

ORDER No. 229 Ed. # 94

At 31 Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	116 1/4	.53 1/2	9 am. 12.28.96	5.15	2		105	.46 3/4
2	112	.55 3/4	8.10 am. 12.28.96	4.25	1		98 1/2	.47
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	114.12	.546		4.50			101 3/4	.4688



	Candles per H. P.
At 16 Candles.	250
At 31 Candles.	369

95	11 a.m. 12-29-96				10 a.m. 12-31-96																			
	20				40' 20"																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49			23½	.47¾			21																
2	.47½			23	.48¼			17¾																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				23¼				19.38																
%				83				69.2																

ORDER No. 230 Ed: 95

At 28 Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	109 3/4	.50 1/2	6 pm. 1.12.97	138.20	1		100 1/2	.45
2	108 1/2	.50 1/2	8.05 1-22-97	228.55	2		98 3/4	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	109.12	.50 1/2					99.62	.45

	Candles per H. P.
At 16 Candles.	267
At 28 Candles.	378

ORDER No. 231 Ed: 96

At 29 1/4 Candles. Test Started 2.15 pm. 12.24.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	Broke on photometer						106 1/4	44 1/2
2	110	53	5 pm. 12.24.96	2.45			100	.46
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	110	.53		2.45			100	.46

	Candles per H. P.
At 16 Candles.	259
At 29 1/4 Candles.	374

Are

Bursted

97 | 11 a.m. 12.29.96 | 10 a.m. 12.31.96 | ~~[illegible]~~

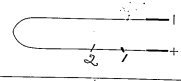
20 | 40' 20"

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.51			23	.49½			19	—			—												
2	.49½			20¾	.49			19																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				21.87				19																
%				76.8				66.7																

ORDER No. 232 Ed: #97

At 28½ Candles. Test Started 2.15pm. 12.24.96

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		At 16 Candles. VOLTS.	AMPERES.
1	109¾	.52	10.10am. 1.15.97	169.45	1		100	.45½
2	110	.57	~~1.40 PM 1.23.97~~	233.30	2		100	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	109.88	.515					100	.45¼

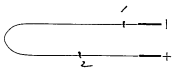


	Candles per H. P.
At 16 Candles.	.264
At 28½ Candles.	.376

ORDER No. 233 Ed: #98

At 28½ Candles. Test Started 2.15pm. 12.24.96

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		At 16 Candles. VOLTS.	AMPERES.
1	112¾	.52½	8.45am. 12.28.96	5.00	1		102½	.45¾
2	109¾	.50	11.05pm. 12.28.96	15.50	2		99½	.43½
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	111¼	.51¼		10.25			101	.4462



	Candles per H. P.
At 16 Candles.	.264
At 28½ Candles.	.373

205 N 1.2.97 (8.30a.m.) 4.10 p.m. 1.5.97

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
	20						40																	
1	.33 4/7			8 2/7	.32			7 4/7																
2	.32			7 1/2	.31 2/7			7																
3	.33 1/2			9	.33			8 4/7																
4	.31			7	—			—																
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				8.06				7 1/2																
%				60.8				56.6																

205 N 8.30a.m. 1.2.97 | 4.10 p.m. 1.5.97 | 8.10 a.m. 1.9.97 | 4.40 p.m. 1.12.97

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
	20						40				80				100									
1	.38 2/7			8 4/7	.38 1/2			8 4/7	.37 1/7			8	.37 1/7			7 1/2								
2	.36			7 1/2	.36			7 4/7	—			—												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				7.87				7.75				8				7 1/2								
%				98.4				96.9				100				93.8								

ORDER No. 234 Ed: 205M

At 13¼ Candles. Test Started 6.15 pm. 12.30.96

At 16 Candles.

Flashed

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	72	.38	12.05 pm. 1.15.97	134.40	3		74	.39
2	69	.37½	2.40 pm. 1.14.97	124.—	2		71½	.39
3	71	.38	9.15 pm. 1.15.97	137.50	4		73	.39¼
4	69½	.38¼	7.30 am. 1.4.97	22.15	1		72	.40
5								
6								
7								
8								
9								
10								
Avg.	70.37	.3794		104.41			72.62	.393

	Candles per H. P.
At 16 Candles.	419
At 13¼ Candles.	370

ORDER No. 235 Ed. 205N

At Candles. Test Started 6.15 pm. 12.30.96

At 8 Candles.

Flashed

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1			4 pm. 1.15.97	137.20	2		58¾	.39
2			3.20 pm. 1.6.97	51.40	1		60¾	.37¾
3								
4								
5								
6								
7								
8								
9								
10								
Avg.				94.50			59¾	.3838

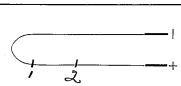
	Candles per H. P.
At 8 Candles.	257
At Candles.	

99	6.15 pm. 1.8.97				11.15 a.m. 1.11.97				9.45 a.m. 1.13.97				5.30 pm. 1.14.97				11.15 AM. 1.16.97							
	30				40				60				80				100							
No.	A	R	V	C.P	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50			21	.49½			20	.48½			18	.48			16½	.47½			16				
2	.50½			20	.50			18¾	.49			17	.48½			15½	.47½			14½				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				20½				19.37				17½				16				15½				
%				71.3				67.4				60.9				55.7				53				

ORDER No. 236 Sd #99

At $28\frac{3}{4}$ Candles. Test Started 9.30 am. 1.6.97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	108	.52	8.00 am 1-26-97	173.30	1		$97\frac{3}{4}$	$.45\frac{3}{4}$
2	111	.52	10.45 AM. 1-23.97	203.30	2		101	.46
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	$109\frac{1}{2}$	.52					99.38	.4587

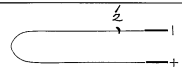


	Candles per H. P.
At 16 Candles.	262
At $28\frac{3}{4}$ Candles.	377

ORDER No. 237 Sd. 100

At $31\frac{2}{3}$ Candles. Test Started 9.30 am. 1.8.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	$112\frac{1}{4}$	.54	1.30 pm. 1.7.97	25.15	2		$101\frac{1}{4}$	.47
2	118	$.54\frac{1}{4}$	2.20 pm. 1.6.97	3.50	1		$105\frac{1}{2}$	.46
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	115.12	.5413		14.32			103.38	.465



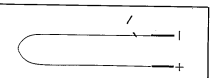
	Candles per H. P.
At 16 Candles.	248
At $31\frac{2}{3}$ Candles.	380

101	6.15 p.m. 1.8.97				11.15 a.m. 14.8.97																			
	30				40																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49			20½ .48				19½																
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				20½				19½																
%				71.9				68.4																

ORDER No. 238 Ed: 101

At 28½ Candles. Test Started 9.30am. 1.6.97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	112	.50½	7.45am. 1.12.97	45.15	1		101½	.44½
2								
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	112	.50½		45.15			101½	.44½

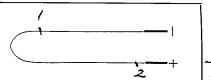


	Candles per H. P.
At 16 Candles.	264
At 28½ Candles.	376

ORDER No. 239 Ed. 102

At 29 Candles. Test Started 9.30am. 1.6.97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	112	.52	2.05pm. 1.8.97	25.50	2		103	.46
2	113½	.49½	10.55pm. 1.7.97	25.10	1		103½	.43
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	112¾	.50¾		25.30			103¼	.44½



	Candles per H. P.
At 16 Candles.	261
At 29 Candles.	377

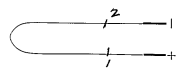
104	6.15 p.m. 1.8.97				11.15 a.m. 1.11.97				9.45 a.m. 1.13.97				5.30 p.m. 1.14.97				11.15 A.M. 1-16-97							
	30				40				60								100							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.51			22½	.50½			21½	.49			18¾	.49			18	.48			16.5				
2	.48			22	.47			21	.46½			19¾	.46			18	.45			17½				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				22¼				21¼				19¼				18				16.5				
%				74.1				72.7				65.8				61.5				57.7				

105	6.15 p.m. 1.8.97				11.15 a.m. 1.11.97				9.45 a.m. 1.13.97				5.30 p.m. 1.14.97				11-15-A.M. 1-16-97							
	30				40				60				80				100							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.51			20	.50			18¾	.49			15¼	.48			14¾								
2	.50			22	.49½			20½	.48½			17¼	.48½			16½	.47½			16				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				21				19.62				16½				15.62				16				
%				71.2				66.5				55.9				53				54.2				

ORDER NO. 240 Ed: 104

At 29¼ Candles. Test Started 9.30 am. 1.6.97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	107¼	.53	5:30 PM 1-18-97	11430	2		98	.47
2	111	.51	4:30 PM 1-18-97	10230	1		102	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	109.12	.52					100	.46

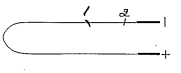


	Candles per H. P.
At 16 Candles.	259
At 29¼ Candles.	383

ORDER NO. 241 Ed: 105

At 29½ Candles. Test Started 9.30 am. 1.6.97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	110½	.53¼	4.05 pm. 1.15.97	90.55	1		100¼	.46½
2	110	.52½	12:15 PM 1.23.97	161.15	2		100	.46
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	110¼	.5287					100.12	.46¼



	Candles per H. P.
At 16 Candles.	258
At 29½ Candles.	378

106	6.15 p.m. 1.8.97				11.15 a.m. 1.11.97				9.45 a.m. 1.13.97				~~7.25 p.m. 1.13.97~~ 5.30 p.m. 1.17.97											
	30				40				60				80											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.48			21½	.48			21½	.47			19¾	.46½			17¼								
2	.48½			20½	.48¼			21	.47			18	—			—								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				21				21¼				18.87				17¾								
%				72.4				73.3				65.1				61.2								

ORDER NO. 242 Ed: 106

At 29 Candles. Test Started 1. 6. 96 9.30 am. At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (minutes)	Order of breaking.		Volts.	Amperes.
1	111	.57	7.45 pm. 1.15.97	93.30	2		101	.45
2	111	.51 3/4	7.35 pm. 1.13.97	67.05	1		101	.45 1/2
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	111	.5737		80.17			101	.45 1/4

	Candles per H. P.
At 16 Candles.	261
At 29 Candles.	380

ORDER NO. 243 Ed: 107

At 32 2/3 Candles. Test Started 9.30 am 1.6.96 At 16 Candles.

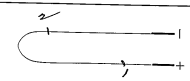
No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (minutes)	Order of breaking.		Volts.	Amperes.
1	115 1/4	.52	11.45 am. 1-6-97	2.15	1		102 3/4	.48
2								
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	115 1/4	.52		2.15			102 3/4	.48

	Candles per H. P.
At 16 Candles.	242
At 32 2/3 Candles.	408

ORDER No. 244 Ed: 108

At 30¼ Candles. Test Started 9.30 a.m. 1-7-97 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (Minutes)	Order of breaking.		Volts.	Amperes.
1	116½	.57	2.40 p.m. 1-6-97	4.10	1		105½	.44
2	117¼	.50½	4.10 p.m. 1-7-97	19.25	2		107	.44½
3								
4								
5								
6								
7								
8								
9								
10								
Avg.				11.47			106¾	.44¼

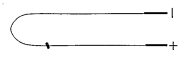


	Candles per H. P.
At 16 Candles.	254
At 30¼ Candles.	381

ORDER No. 245 Ed: 109

At 32 Candles. Test Started 9.30 a.m. 1-8-97 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (Minutes)	Order of breaking.		Volts.	Amperes.
1	123¼	.50½	9.50 a.m. 1-6-96	.20	1		111¼	.43¾
2								
3								
4								
5								
6								
7								
8								
9								
10								
Avg.								



	Candles per H. P.
At 16 Candles.	245
At 32 Candles.	384

111	6.15 p.m. 1.8.97				11.15 a.m. 1.11.97				9.45 a.m. 1.13.97				5.30 p.m. 1.14.97				11.15 A.M. 1.16.97							
	30				40				60				80				100							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49			21½	.48¾			20½	.47¾			17½	.47			16	46½			15½				
2	.49½			20½	.49			20	.48½			18½	.48			17	47			15½				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				20.87				20¼				17.87				16½				15.37				
%				72				69.8				61.6				56.9				53				

ORDER NO. 246 Ld: 110

Paplinded

At $33\frac{3}{4}$ Candles. Test Started 9.30 am. 1-6-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	$121\frac{3}{4}$	$.54\frac{1}{4}$	4.50 pm 1-6-97	6.25	1		$108\frac{1}{4}$	$.46\frac{1}{2}$
2								
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	$121\frac{3}{4}$	$.54\frac{1}{4}$		6.25			$108\frac{1}{4}$	$46\frac{1}{2}$

	Candles per H. P.
At 16 Candles.	.237
At $33\frac{3}{4}$ Candles.	381

ORDER NO. 247 Ld: 111

2 1

At 29 Candles. Test Started 9.30 am. 1-6-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	108	.52	11.30 AM 1-22-97	1428.30	1		$98\frac{1}{4}$	.46
2	111	.52	5.40 Pm 1-28-97	2019.33	2		101	.46
3								
4								
5								
6								
7								
8								
9								
10								
Avg.							99.62	.46

	Candles per H. P.
At 16 Candles.	261
At 29 Candles.	380

ORDER No. 248 Sd: 112

At 35 Candles. Test Started 9.30 am. 1.6.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life. (Minutes)	Order of Breaking.		Volts.	Amperes.
1	118½	.55	10.10am. 1-6-97	.40	1		107½	.48
2								
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	118½	.55		.40			107½	.48

	Candles per H. P.
At 16 Candles.	232
At 35 Candles.	399

ORDER No. 249 Sd. 113

At 29¾ Candles. Test Started 9.30am. 1.6.97 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life. (Minutes)	Order of Breaking.		Volts.	Amperes.
1	112	.57	10.30am. 1-6-97	2.	2		102	.45
2	115¼	.52	10am - 1-6-97	.30	1		104	.45¼
3								
4								
5								
6								
7								
8								
9								
10								
Avg.				1.15			103	.4512

	Candles per H. P.
At 16 Candles.	256
At 29¾ Candles.	381

Arch

Burnt

114	6.15 pm. 1.8.97				11.15 am. 1.11.97				9.45 am. 1.13.97				5.30 pm. 1.14.97				11.15 pm. 1-16-97							
	30				40				60				80				100							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49			21	.48½			20	.48			17½	.47			17	46½			16				
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				21				20				17½				17				16				
%				70.6				67.2				58.8				57.1				53.5				

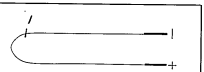
115	6.15 pm. 1.8.97				11.15 am. 1.11.97				9.45 am. 1.13.97				5.30 pm. 1.14.97				11.15 pm. 1-16-97							
	30				40				60				80				100							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.57 3/7			19½	.50½			19	.49			16½	.48½			16	45			15 4/7				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				19½				19				16½				16				15 4/7				
%				63.9				62.3				54.1				52.5				50				

Taken Down 1-19-97

ORDER No. 250 Id: 114

At $29\frac{3}{4}$ Candles. Test Started 9.30 am. 1-6-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	112	.57	11.20 am 1-2-97	190.05	1		$102\frac{1}{4}$	$.45\frac{1}{2}$
2								
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	112	.57					$102\frac{1}{4}$	$.45\frac{1}{2}$

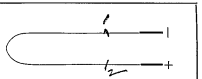


	Candles per H. P.
At 16 Candles.	256
At $29\frac{3}{4}$ Candles.	390

ORDER No. 251 Id: 115

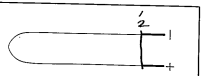
At $30\frac{1}{2}$ Candles. Test Started 9.30 am. 1-6-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	114	$.52\frac{1}{4}$	2 pm. 1-6-97	3.30	1		$102\frac{1}{4}$	.45
2	$115\frac{1}{2}$	$.54\frac{1}{2}$	8.10 AM 1-19-97	106.10	2		$103\frac{1}{4}$	$.46\frac{3}{4}$
3								
4								
5								
6								
7								
8								
9								
10								
Avg.							$102\frac{3}{4}$	.4587



	Candles per H. P.
At 16 Candles.	253
At $30\frac{1}{2}$ Candles.	372

ORDER No. 252 Sd: 116



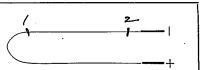
At 32½ Candles. Test Started 9.30 am. 1.6.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.		Volts.	Amperes.
1	117	.54	10.03 am. 1.6.97	.33	2		105	.46
2	120¼	.53	10.02 am. 1.6.97	.32	1		108½	.45¾
3								
4								
5								
6								
7								
8								
9								
10								
Avg.				31½			106¾	.458

	Candles per H. P.
At 16 Candles.	243
At 32½ Candles.	361

} both are

ORDER No. 253 Sd: 117



At 29½ Candles. Test Started 9.30 am. 1-6-97 At 16 Candles.

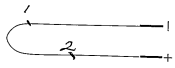
No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.		Volts.	Amperes.
1	111½	.57¼	1.25 pm 1-7-97	25.10	2		101	.45
2	112	.53	11.35 am. 1-6-97	2.05	1		101½	.46½
3								
4								
5								
6								
7								
8								
9								
10								
Avg.				13.38			101¼	.45¾

	Candles per H. P.
At 16 Candles.	258
At 29½ Candles.	384

119	6.15 pm. 1.8.97				11.15 am. 1.11.97																			
	30				40																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.48			21	.47½			20¼																
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				21				20¼																
%				76.4				73.6																

120	6.15 pm. 1.8.97				11.15 am. 1.11.97				9.45 am. 1.13.97				5.30 pm 1.14.97				11.15 AM 1.16.97							
	30				40				60				80				100							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.47½			22	.46¾			21¼	—				—											
2	.48			20½	.47			19	.46½			18	.46½			16¾	.45½			15½				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				21¼				20.12				18				16¾				15½				
%				77.3				73.2				65.5				60.9				56.4				

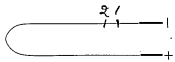
ORDER NO. 254 Ed: 119



	At 27½ Candles.		Test Started 9.30 am. 1-6-97				At 16 Candles.	
NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	108	.49½	8.30 am. 1.12.97	46.—	2		99½	.44½
2	105¼	.57	3.45 pm. 1.6.97	5.15	1		97¼	.46
3								
4								
5								
6								
7								
8								
9								
10								
Avg.				25.38			99.38	.45¼

	Candles per H. P.
At 16 Candles.	269
At 27½ Candles.	382

ORDER NO. 255 Ed: 120



	At 27½ Candles.		Test Started 9.30 am. 1-6-97				At 16 Candles.	
NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	108	.57	8.45 am. 1.12.97	46.15	1		98½	.45
2	106	.50	10.40 am 1-28-97	20225	2		97¾	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.							98.12	.45

	Candles per H. P.
At 16 Candles.	270
At 27½ Candles.	379

123 8000 L.	6.15 pm 1.8.97				11.15 pm 1.11.97				9.45 am 1.13.97				5.30 pm 1.14.97				11.15 am 1-16-97							
	30				40				60				80				100							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.51			20	.48			19	.47½			17	.47			15½	.46			14				
2	.50			23	.49½			21½	.49			19	.48½			17	.48			16				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				21½				20¼				18				16.37				15				
%				75.4				71.1				63.2				57.5				52.6				

ORDER No. 256 Ed: 122

At 28 Candles. Test Started 9.30am. 1-6.97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	110	.50½	4.35pm. 1.6.97	6.05	1		100½	.45
2	107¾	.50½	9.55pm. 1.7.97	24.10	2		98½	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.				15.07			99½	.45

	Candles per H. P.
At 16 Candles.	267
At 28 Candles.	381

ORDER No. 257 Ed: 123

At 28½ Candles. Test Started 9.30am. 1.6.97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	109	.57	4.15 PM 1-20-97	326.20	1		100	.45
2	108½	.57½	6.45 PM-2-23-97	465.30	2		99	.45½
3								
4								
5								
6								
7								
8								
9								
10								
Avg.							99½	.454

	Candles per H. P.
At 16 Candles.	264
At 28½ Candles.	382

42 B

—	1
—	+

Candles per H. P.
264
396

Effec	10.00 A.M. 1-21-97				6.10 P.M. 1-22-97				10.00 A.M. 1-26-97															
μμ	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	48			21	47			17	46			15½												
2	47½			20½	46½			17	46			16												
3	48			21	47			16½	46½			16												
4	49½			21½	49			18	48			17												
5	49			21	48			18	47			15¾												
6																								
7																								
8																								
9																								
10																								
Ave.				21				17.35				16.05												
%				73%				60.9				56.3												

ORDER No. 258 Ed: 124

At 29 Candles. Test Started 9.30 a.m. 1.6.97

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (minutes)	Order of breaking.		At 16 Candles. Volts.	Amperes.
1	110	.52	7.58 p.m. 1.7.97	21.65	2		100	.46
2	112½	.52½	8.45 a.m. 1.7.97	13.—	1		102⅓	.45¼
3								
4								
5								
6								
7								
8								
9								
10								
Avg.				17.32			101¼	.45½

	Candles per H. P.
At 16 Candles.	361
At 29 Candles.	371

Burned

42 lb 15

ORDER No. 259 Special/11

At 28½ Candles. Test Started 4.25 PM. 1-19-97

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (minutes)	Order of breaking.		At 16 Candles. Volts.	Amperes.
1	107½	49½	7.15 PM 1-28-97	93.25	1		100¼	45
2	108	49	2.15 PM 2-3-97	145.25	2		100¾	45
3	107½	49½					100	45
4	107½	51	3.15 PM. 2-16-97	224.25	4		99½	45¾
5	106½	50½	5.45 PM 2-11-97	231.55	3		99½	45¾
6								
7								
8								
9								
10								
Avg.	107.4	49.9					100	45.3

	Candles per H. P.
At 16 Candles.	264
At 28½ Candles.	396

Candles per H. P.

268

369

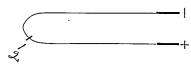
260	10am 2-4-97				9:30 2-5-97				9:30 am 2-6-97				10:15 AM 2-10-97											
1	10.15				20,15				30,15				50.15											
No.	A	R	V	C.P	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	57			26	51			22½	50			21.5	49			17								
2	50			26½	48½			22½	49			21	48			17½								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				26.12				22.5				21¼				17¼								
%				94.1				81.1				76.6				62.2								

261	10am 2-4-97				9:30am 2-5-97				9:30 am 2-6-97				10:15 AM 2-10-97											
3 (000 L)	10,15				20,15				30,15				50.15											
No.	A	R	V	C.P	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	51			26	50			22	49¾			20.5	48.5			16.5								
2	48½			25	48½			21	47			19	46.5			15¾								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				25.5				21.5				19¾				16.12								
%				92.7				78.2				71.8				58.6								

ORDER No. 260 Ed Co

At 27 3/4 Candles. Test Started 12 M 2-3-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	108 1/2	52	7 30 am 2-13-97	9115	1		99	45 1/2
2	110	51	4 25 PM 2-23-97	15716	2		99 3/4	44
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	109,25	51.5					99.37	44,75

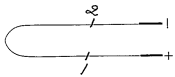


	Candles per H. P.
At 16 Candles.	268
At 27 3/4 Candles.	369

ORDER No. 261 Ed No 2

At 27 1/2 Candles. Test Started 12 M 2-3-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	110	51	7 30 AM 2-16-97	108.15	2		99 3/4	44 1/2
2	111 3/4	49	6 25 PM 2-12-97	8810	1		101 1/2	43 1/2
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	110,87	50					100,37	44



	Candles per H. P.
At 16 Candles.	270
At 27 1/2 Candles.	371

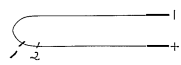
262 3 6000 L.	10 am 2-4-97 10.15				9 30 am 2-5-97 20,15				9 30 am 2-6-97 30-15				10.15 AM 2-10-97 30.15											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	50			26	49			21	48			19	47			16								
2	49.75			25.20																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				25.3				21				19				16								
%				93.6				76.4				68.1				58.5								

263 4 6000 L.	10 am. 2-4-97 10.15				9 30 am 2-5-97 20,15				9 30 am 2-6-97 30,15				10.15 AM 2-10-97 50,15											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	51			26.25	50			22	49.5			21	48			17								
2	50			26.25	49.6			22	48.5			20.5	47.6			16.6								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				25.3				22				20.3				16.62								
%				93.7				78.5				74.1				59.4								

ORDER No. 262 Ed C^N

At 27½ Candles. Test Started 12 M. 2-8-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	112½	50	10^00 A.M. 2-12-97	79.45	2		101½	43½
2	110½	50	12.15 P.M. 2-4-97	10.15	1		100¼	44
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	111.37	50					100.87	43.75

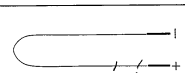


	Candles per H. P.
At 16 Candles.	270
At 27½ Candles.	369

ORDER No. 263 Ed S^B

At 28 Candles. Test Started 12-M. 2-8-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	110½	51	1.45 PM 2-17-97	12.00	1		100¼	44½
2	111	50	7.15 PM 2-18-97	146.30	2		101¼	44½
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	110.75	50.5					100.75	44.5



	Candles per H. P.
At 16 Candles.	267
At 28 Candles.	372

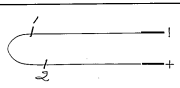
264	10am 2-4-97				9.30am 2-5-97				9.30am 2-6-97				10.15 AM 2-10-97											
♂	10,15				20,15				30,15				50,15											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	58			22,5	50			21½	49			20,5	50			17								
2	52,5			27	52			23	51			21,												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				26,12				22¾				20¾				17								
%				91,7				78,8				73,5				60,2								

265	10am 2-4-97				9.30 AM 2-5-97				9.30am 2-6-97				10.15 AM 2-10-97											
♀ Good L.	10,15				20.15				30.15				50,15											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R*	V	C.P.	A	R	V	C.P.
1	54			22,5	53½			50	47			17	47			15½								
2	50			27	49			24	48¾			21¼	47½			18								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				28¾				27				19,12				16¾								
%				99,1				94,7				67,1				58,3								

ORDER No. 264 Ed 3"

At 28 1/4 Candles. Test Started 12, M, 2, 3-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	110 1/4	51 1/2	5:50 PM 2-8-97	45:20	1		99 1/2	45
2	110	52 1/2	5:25 PM 2-18-97	144.40	2		99	45 1/2
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	110,12	52					99,25	45,25

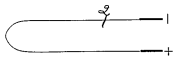


	Candles per H. P.
At 16 Candles.	265
At 28 1/4 Candles.	367

ORDER No. 265 Ed 5"

At 28 1/2 Candles. Test Started 12, M, 2, 3-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	98 1/4	53 1/4					98	47
2	112 1/4	50	2:15 PM 2-19-97	154.00	1		101 1/4	44
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	105,25	51,62					99,62	45,5



	Candles per H. P.
At 16 Candles.	264
At 28 1/2 Candles.	390

266 7	10am 2-4-97 10,15				9:30 2-5-97 20,15				9:30am 2-6-97 30,15				10.15AM 2-10-97 30 15											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	5.2			26	57			22	58.5			20.5	49			16½								
2	5.3			26.5	52½			22	51.5			20.5	50½			16½								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				26½				22				20.5				16½								
%				91.3				76.5				71.3				57.4								

000 1.	290 34 hrs 9th am 12.18.97				431.45 7 30am 1.6.98																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	39			11	37¾			10																
2																								
3	39			10⅞	38			10																
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				10.87				10																
%				43.5				40																

	7:45 am 11-30-97				7:30 am 12-1-97				7:15 am 12-2-97				7:15 am 12-3-97				7:15 am 12-4-97				2:32 pm 12-10-97			
6000 L.	134.50 hrs				144.50 hrs				154.50 hrs				164.50 hrs				174.50				2.24.30			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	39			12½	39			12	38			11½	37½			12½	37½			12½	37½			12
2	37½			12																				
3	39			13	39			12½	38			12	38			12	38			12	38			12
4																								
5	41			12½																			0	
6																								
7																								
8																								
9																								
10																								
Ave.				12.5				12.12				11.87				12.37				12.37				1
%				50				48.5				47.5				51.5				49.5				4

	4:30 PM 11-19-97 71¾				10 am 11-22-97 83¾ hrs				12.15 PM 11-23-97 93 hrs				1.45 PM 11-24-97 103¾ hrs				12.45 PM 11-26-97 113¾ hrs				12.15 pm 11-27-97 124.50			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	40			15½	40			14½	39			14½	39½			14½	39			13¾	38½			13
2	39			14¾	39½			13½	39			12¾	38½			12	39½			12	38			12
3	40			15½	40			14¾	39.5			13½	40			13½	39½			12¾	39			13
4																								
5	43			16	42½			15	42.5			14¾	42½			13¾	42½			13¾	42			12
6																								
7																								
8																								
9																								
10																								
Ave.				15.31				14.37				13.62				13.37				12.81				12
%				61.2				57.5				54.5				53.5				51.2				5

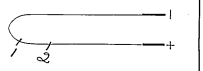
Female 11-12-97	9 AM 11-16-97	8 PM 11-16-97	5:30 PM 11-16-97	5 PM 11-17-97	5:30 PM 11-18-97
Rearing Cage 3.0 4:30 PM	23 2/7	31 1/7	41 1/7	51 1/7	61 3/7

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	42			23 1/7 40				20	40 1/7			19 1/7 40				18 1/7 40				17 40				16
2	42 1/7			22 1/7 40				18	40			17 1/7 40				16 1/7 40				14 2/7 38 1/7				14
3	42 1/7			24 42				19 2/7	41			19 41				18 40 1/7				17 39 1/7				16
4	42 1/7			20 42				20	41			18 2/7												
5	43			24 43				20 2/7	44			19 1/7 43				17 1/7 43				16 1/7 42				16
6																								
7																								
8																								
9																								
10																								
Ave.				23.4				19.70				18.7				17.02				16.2/2				15
%				93.6				78.8				74.8				70.8				65.2				67

ORDER No. 266 Ed. F^E

At 28 3/4 Candles. Test Started 12 M. 2-3-97 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		Volts.	Amperes.
1	111	52 1/2	6^45 PM 2-10-97	60.00	1		100	45 1/2
2	108	53	3^45 PM 2-18-97	142.30	2		97 3/4	46 1/2
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	109.5	52.75					98.87	46

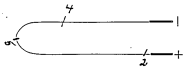


	Candles per H. P.
At 16 Candles.	262
At 28 3/4 Candles.	371

ORDER No. 267 Lamp Factory Film

At 25 Candles. Test Started 4:30 P.M. 11-11-97 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		Volts.	Amperes.
1	119	48					111	.38
2	118	48	12.25 PM 11-30-97	114.00	2		110	.38
3	116	43					107	.38
4	115	44	4:30 P.M. 11-16-97	40-20	1		107	.39
5	112	46	2^15 PM 11-30-97	148.50	3		103	.41
6								
7								
8								
9								
10								
Avg.	116	43.5					107.6	35.8



	Candles per H. P.
At 16 Candles.	286
At 25 Candles.	367

268 | 1145 P.M. 11-26-97 | 6 7/12 hrs

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	89			21 1/2																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				21 1/2																				
%				71.1																				

After Re-Exhausting

209 hrs 9-4-am 12-15-97 | 350 hrs 7.30 am 1.6.98

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	40			10 1/2	38 1/2			9 1/2																
3																								
4	41			11	39 1/2			10																
5	40			10 1/2	39			9 1/2																
6																								
7																								
8																								
9																								
10																								
Avg.				10.66				9.66																
%				47.3				42.9																

Bambro	11-12-97 10 7:30 PM				9 AM 11-15-97 23½				8 PM 11-15-97 31½				5:30 PM 11-16-97 41½				1:15 PM 11-17-97 47½							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	
1	90			47	95			46½	90			44												
2	97			46	90			46	90			87	94			81	92			26				
3	96			45.5																				
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				46.17				46½				40½				81				26				
%				102.6				103				90				65.9				57.8				

268	20 hrs				9 Am 11-27-97 40 hrs				4 PM 11-30-97 60 hrs				4 PM 12-2-97 80 hrs				1:30 PM 12-6-97 102.30				9 Am 12-11-97 150			
6000 L.	6 PM 11-23-97																							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	42½			18½	41			15	40½			14												
2	42			19	41			15½	41			14¾	40			13¾	40			13	39			12
3	42½			19¾	41½			16¼	41½			15	41			14	40			13¾	40			11½
4	43			19¾	42½			16¾	42½			15½	41½			14½	41			14	40			12
5	43			19	42			16	42			14¾	40			13½	40			13½	38			12
6																								
7																								
8																								
9																								
10																								
Avg.				19.2				15¾				14.4				14				13½				11.87
%				80.3				70.9				65.8				62.2				57.7				52.8

ORDER No. 268 Bamboo.

At 45 Candles. Test Started 4:30 P.M. 11-11-97 At 16 Candles.

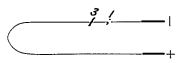
No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp Life (Minutes)	Order of Breaking.		Volts.	Amperes.
1	113	.90	10:40 A.M. 11-12-97	3435	2		95	.72
2	113	.97	Broken 11-22-97 10:55 A.M. 11-17-97	47½	Taken down to be photographed		94½	.77
3	109	.96	10:30 A.M. 11-13-97	18th	1		92	.76
4								
5								
6								
7								
8								
9								
10								
Avg.	111.7	.943					93.83	.75

	Candles per H. P.
At 16 Candles.	197
At 45 Candles.	319

ORDER No. 269 Box 1

At 22½ Candles. Test Started 9 A.M. 11-22-97 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp Life (Minutes)	Order of Breaking.		Volts.	Amperes.
1	104	.44	4:15 P.M. 12-1-97	6912 hrs	1		95.5	.40
2	105	.43					98	.39
3	104.5	.43	3:30 P.M. 12-13-97	15945	2		99	.40
4	106	.43.5					100	.40
5	105	.44					99	.40
6								
7								
8								
9								
10								
Avg.	104.9	43.5					98.9	39.8



	Candles per H. P.
At 16 Candles.	804
At 22½ Candles.	369

209 hrs
9 45am 12-18-97

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	41			11																				
2	39 1/2			10 3/4																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				10.75																				
%				43																				

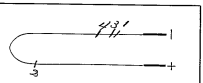
209 hrs 350 hrs
9 45am 12-18-97 7 30am 1.6.98

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	38 1/4			10 3/4	37			9 1/4																
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				10.75				9.25																
%				43				43																

270 (000) L.	20 hrs 6PM 11-23-97				40 hrs 9am 11-27-97				60 hrs 4PM 11-30-97				80 hrs 4PM 12-2-97				102, 30 1:30PM 12-6-97				9am 12-11-97 150			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	44			20½	44			17	43			15½	42½			13½	42½			14½	40			12½
2	45			20	45			16½	44½			15¾	44			15	43			13½				
3	45			20½	45			17	44½			15½	44			14½	42½			13½				
4	42			19	43			16	42			15	41			14½	40			13½	38			11¾
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				19.4				16.68				15.31				14.81				13.25				12.12
%				79.7				66.7				61.2				59.2				55				48.0

271	20 hrs 6PM 11-23-97				40 hrs 9am 11-27-97				60 hrs 4PM 11-30-97				80 hrs 4PM 12-2-97				102, 30 1:30PM 12-6-97				150 hrs 9am 12-11-97			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	40			19	40			16	40			14½	39½			13½	39			12½	37½			10¾
2	40			18¾	40			16	40			14	40			13¾	39			13½				
3	40			19	39½			16½	40			15												
4	40½			18½	40			16	40			14½	40			13½	39			12¾				
5	37½			17	37			15	37			14												
6																								
7																								
8																								
9																								
10																								
Avg.				18.45				15.9				14.35				13.55				12.91				10.7
%				85.8				74				66.7				63.2				60				50

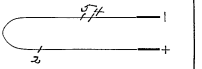
ORDER No. 270 Box 2



	Candles per H. P.
At 16 Candles.	256
At 25 Candles.	377

At 25 Candles. 95 Test Started 9 A.M. 11-22-97							At 16 Candles.	
NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	109	.45	7 30 am 12 24 97	2514 hrs	4		101	.40.5
2	109	.46	3 13 PM 12-8-97	123.15	2.		101	.42.
3	109	.46	7 30 am 12-8-97	115.20	1		102	.42
4	110	.44	3 10 PM 12.23.97	250.40	3		102	.40
5								
6								
7								
8								
9								
10								
Avg.	109.25	45.25					101.5	41.2

ORDER No. 271 Box 3



	Candles per H. P.
At 16 Candles.	312
At 21½ Candles.	370

At 21½ Candles. Test Started 9 A.M.							At 16 Candles.	
NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	107	41					101	.35
2	104.5	41.5	5 10 PM 12-6-97	103.10	3		99	.39
3	107	41	Exp. elec 7 am 12-1-97	60 hrs	1		102	.35
4	105	41.5	1 30 PM 12-8-97	121.20	4		100	.39
5	105.5	39	3 30 PM 12-2-97	79.00	2		103	.35
6								
7								
8								
9								
10								
Avg.	106.4	40.5					101	37.5

20.9 hrs 35.0 hrs
9:45 am 12-15-97 7:30 am 1.6.98

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	38½			10½																				
2																								
3	39			10																				
4	40½			10½																				
5	40			10½	38½			9.25																
6																								
7																								
8																								
9																								
10																								
Avg.				10.25				9.25																
%				49				107																

20.9 hrs 35.0 hrs
9:45 am 12-15-97 7:30 am 1.6.98

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2																								
3	41½			12	40			10½																
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				12				10.5																
%				50				43.8																

273	20 hrs				40 hrs				60 hrs				80 hrs				102, 30				150			
	6 PM 11-23-97				9 am 11-27-97				4 PM 11-30-97				4 PM 12-2-97				1 30 PM 12-6-97				9 am 12-11-97			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	41			19½ 40				16½ 40				13 39				12½ 38				12½ 37½				11
2	41			18½ 40				13½ 40				14½												
3	42			18½ 40½				13½ 39				14½ 40				13.25 39½				13 38				11½
4	42½			18¾ 42½				16½ 42½				14 40½				13.25 40				12½ 40				11½
5	42½			19½ 42				16½ 41				14½ 40				13.00 40				12½ 38				11½
6																								
7																								
8																								
9																								
10																								
Ave.				18.85				16				14.5				13.37				12.75				11
%				82.2				74.7				63.7				58.8				56.1				4

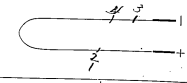
R-1.5

273	20 hrs				40 hrs				60 hrs				80 hrs				102,30				150			
1000 L.	6 PM 11-23-97				9 am 11-27-97				4 PM 11-30-97				4 PM 12-2-97				1 30 PM 12-6-97				9 am 12-11-97			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	44			20½ 42½				16½ 42				15½ 42				14¾ 41				14 39				12
3	44			20 43				17 43				16 43				15 42				14½ 40½				12½
4	45			19½ 44				16¾ 44				15½ 44				14¾ 43				14½				
5	42.50			19½ 42½				16¾ 42½				15 40				14 40				13½ 38				11½
6																								
7																								
8																								
9																								
10																								
Ave.				19.8				16.25				15.5				14.5				14				12.0
%				82.5				67.8				64.6				60.4				58.3				50

ORDER No. 272 Box 4

At 22 3/4 Candles. Test Started 9 A.M. 11-22-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	107	.42	5-12 Pm 12-20-97	305.15	2		101	.38
2	106.5	.42	1 Pm 12-1-97	166.10	1		100	.39
3	104	.43	9 40 am 1-5-98	341.15	4		99	.39
4	104	.44	5 30 Pm 12.31-97	316.30	3		98	.40
5	105	.44					99	.40
6								
7								
8								
9								
10								
Avg.	105.3	.43					99.4	.39.2

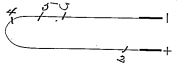


	Candles per H. P.
At 16 Candles.	306
At 22 3/4 Candles.	375

ORDER No. 278 Box 5

At 24 Candles. Test Started 9 A.M. At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	106.5	.45	Failure burner				99	.41
2	109.5	.44.5	12 40 Pm 12-17-97	300.15	2		102	.40
3	106	.45	5 Pm. 1.10.98	381.15	4		99	.41
4	106	.45	10 30 AM-12-8-97	118.3	1		100	.41
5	111	.43	9 15 Pm 12-18-97	208.30	3		103	.40
6								
7								
8								
9								
10								
Avg.	107.8	44.5					100.6	40.6



	Candles per H. P.
At 16 Candles.	293
At 24 Candles.	372

20 g hr
9 45 am 12-18-97

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	40			11																				
2	41			11½																				
3	41½			11																				
4	40½			12																				
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				11 3/4																				
%				47 1/2																				

20 g hr
9 45 am 12-18-97

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2																								
3	41			12																				
4	40½			10																				
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				11																				
%				46 1/2																				

274 20 hrs 6 PM 11-23-97 | 40 hrs 9 am 11-27-97 | 60 hrs 4 PM 11-30-97 | 80 hrs 4 PM 12-2-97 | 102,30 130 Pm 12-6-97 | 150 9 am 12-11-97

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	42½			19	42½			16	42			15½	41			13½	40			12½	39			11
2	44			19	43			16½	43			15	42½			14½	41½			13	40			11
3	44½			20	44			17	44			15½	42½			14½	42½			13½	40½			12
4	42½			19½	42½			16½	42½			15	42			14½	41			13½	40			12
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				19.37				16.43				15.18				14.18				13.06				
%				81.6				69.3				63.9				59.7				55				

ORDER NO. 275

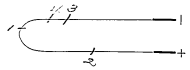
275 20 hrs 6 PM 11-23-97 | 40 hrs 9 am 11-27-97 | 60 hrs 4 PM 11-30-97 | 80 hrs 4 PM 12-2-97 | 102,30 130 Pm 12-6-97 | 150 9 am 12-11-97

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	41½			20	40			16½	40			15½	40			14½	39			12½	37½			11
2	43			19½	43			15½	42			14	41			13½	40			12½	38			11
3	43			20½	43			17	42½			15½	42½			14½	43			13½	39			12
4	44			20	43½			16½	42½			14½	42½			14	41			13	39½			11
5	40			19½	40			16	39			14½	39			14	39			13	37			11
6																								
7																								
8																								
9																								
10																								
Ave.				19.75				16.35				14.85				14.1				13.00				11
%				83.3				68.8				62.5				57.4				54.9				44

ORDER NO. 274 Box 6

At $23\frac{3}{4}$ Candles. Test Started 9. A.M. 11-22-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	107	43	245 pm 12.21.97	313.45	4		101	40
2	104	44.5	215 pm. 12.21.97	271.45	3		95	40
3	107	45	745 am 12.22.97	265.15	2		101	42
4	107.5	44	940 am 12.24.97	231.10	1		101	40
5								
6								
7								
8								
9								
10								
Avg.	106.37	44.12					100.25	40.5

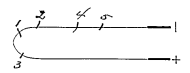


	Candles per H. P.
At 16 Candles.	294
At $23\frac{3}{4}$ Candles.	375

ORDER NO. 275 Box 7

At $23\frac{3}{4}$ Candles. Test Started 9. A.M. 11-22-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	110	42	1120 am 12-13-97	155.45	2		103.5	38
2	108	43	1105 am 12-16-97	177.30	3		102	40
3	107.5	43.5	905 am 12.21.97	223.20	5		102	40.5
4	105	44.5	540 pm 12-20.97	220.10	4		102	40.5
5	111	42	740 am 12-13-97	151.55	1		106	38
6								
7								
8								
9								
10								
Avg.	108.9	48					103.1	39.4



	Candles per H. P.
At 16 Candles.	294
At $23\frac{3}{4}$ Candles.	375

6060 L.	209 hrs 9^{45} am 12-18-97				350 hrs 7^{30} am 1.6.98															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																				
2	41½			11	40½			9½												
3																				
4																				
5	41¼			11																
6																				
7																				
8																				
9																				
10																				
Ave.				11				9.5												
%				47.3				40.9												

6060 L.	209 hrs 9^{40} am 12/18/97				350 hrs 7^{30} am 1.6.98															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																				
2																				
3																				
4																				
5	41			11	39¼			9												
6																				
7																				
8																				
9																				
10																				
Ave.				11				9												
%				45.8				37.5												

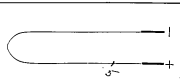
2.76	20 hrs				40 hrs				60 hrs				80 hrs				102.30				150			
6000 r.	6 Pm 11-23-97				9 am 11-27-97				4 Pm 11-30-97				4 Pm 12-2-97				1:30 Pm 12-6-97				9 am 12-11-9			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	44			20½	43			17	42½			15¼	42½			14	42			13¾	40			11
3																								
4																								
5	43			19¾	42½			16½	42½			15	42½			14	41½			13¾	40			12
6																								
7																								
8																								
9																								
10																								
Ave.				20				16.75				15.12				14				13.75				11
%				86.4				72				65.1				60.2				58.1				5

	20 hrs				40 hrs				60 hrs				80 hrs				102.30				150			
	6 Pm 11-23-97				9 am 11-27-97				4 Pm 11-30-97				4 Pm 12-2-97				1:30 Pm 12-6-97				9 am 12-11-9			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	44½			19	44			16	44			14½												
2	43			18½	43			16	40			12½												
3	43			19¼	42			15¾	42½			15	40			13	40			12¼	38			11
4	44			19	43			16½					"											
5	43			19	42½			16¼	42½			14½	42			13¾	41			12¾	40			11
6																								
7																								
8																								
9																								
10																								11
Ave.				18.85				16.1				14.12				13.37				12.5				4
%				75.9				67.1				58.9				55.7				53				

ORDER No. 276 Box 8

At 23 1/7 Candles. Test Started 9 A.M. 11-22-97 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (Minutes)	Order of breaking.		Volts.	Amperes.
1	103	44					98	42
2								
3								
4								
5	103.5	44	11^00 am 12.31.97	310 hr	1		98	40
6								
7								
8								
9								
10								
Avg.	103.25	44					98	41

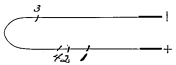


	Candles per H. P.
At 16 Candles.	298
At 23 1/7 Candles.	381

ORDER No. 277 Box 9

At 24 Candles. Test Started 9 A.M. 11-22-97 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (Minutes)	Order of breaking.		Volts.	Amperes.
1	105	45	9^30 am 12-2-97	73½ hrs	3		100	42
2	105	44	9^35 am 11-29-97	41-2½ hrs	1		100	40
3	105	44	10^20 am 12-16-97	176.35	4		101.5	40
4	106	45	5^10 PM 12-1-97	70½ hrs	2		99	41
5	105	44.5					100	41
6								
7								
8								
9								
10								
Avg.	105.8	44.5					100.1	40.8



	Candles per H. P.
At 16 Candles.	293
At 24 Candles.	397

6050 L.

	209 hrs 9 42 am 12.18.97				350 hrs 7 30 am 1.6.98																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	42			12 1/4	40 1/2			9 1/2																
2																								
3	41			11 1/2																				
4																								
5	40 3/4			11																				
6																								
7																								
8																								
9																								
10																								
Avg.				11,58				9,5																
%				47,8				39,2																

6050 L.

	209 hrs 9 42 am 12.18.97																							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	42 1/4			11 1/4																				
3																								
4	42			11 3/4																				
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				11,5																				
%				46,9																				

Candles per H. P.

291

383

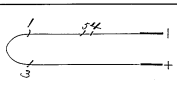
	20 hrs.				40 hrs				60 hrs				80 hrs				102,30				150			
	6 PM 11-23-97				9 am 11-27-97				4 PM 11-30-97				4 PM 12-2-97				1 30 PM 12-6-97				9 am 12-11-97			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	44			20	44			17 42½				15½ 42½				15 42½				14½ 40½				12
2																								
3	42½			19½ 42				16 42				15	42			14.5 41				13½ 40				1
4	43			19¾ 42 1/10				15¾																
5	43			20 42½				16¼ 42½				13¾ 42½				14½ 42				13½ 40				12
6																								
7																								
8																								
9																								
10																								
Ave.				19.81				16.37				15.41				14.75				13.75				12
%				57.2				67.5				63.6				60.8				56.7				4

	20 hrs				40 hrs				60 hrs				80 hrs				102,30				150			
000 L.	6 PM 11-23-97				9 am 11-27-97				4 PM 11-30-97				4 PM 12-2-97				1 30 PM 12-6-97				9 am 12-11-97			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	42½			20	42			16½ 41				14¾ 41				13½	40			12½	38			11
2	45			20	44			16 48				14½ 48				14½	43			13	42			11½
3																								
4	45			20	44			16½ 44				15½	43			14	42½			13½	41			12
5	44			20	43			16½ 42½				15	41			13½	40½			12½	40			11½
6																								
7																								
8																								
9																								
10																								
Ave.				20				16.37				14.93				13.81				12.81				11
%				81.8				66.8				61				56.4				52.6				4

ORDER No. 278 Box 10

At 24½ Candles. Test Started 9 A.M. 11-22-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. HOURS.	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	106.5	45	4:40 Pm 1.7.98	366.15	4		101	42
2		[illegible]						
3	106.5	43.5	4:15 Pm 1.7.98	336.45	3		101	40
4	108	44	5 P.M. 11-29-97	50 hrs	1		102	40
5	107.5	45	9 am 12.20.97	211.30	2		101	40
6								
7								
8								
9								
10								
Avg.	107.12	44.12					101.25	40.5

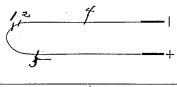


	Candles per H. P.
At 16 Candles.	291
At 24½ Candles.	383

ORDER No. 279 Box 11

At 24½ Candles. Test Started 9 A.M. 11-22-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. HOURS.	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	107	43.5	7:15 am 12-13-97	151.30	1		101.5	40
2	104	45	12:20 Pm 12.28.97	179.45	3		99	42
3	104						100	
4	106.5	45	3:00 Pm 12.27.97	293 hrs			101	42
5	107	40	5:30 Pm 12.12.97	161.45	2		100	40
6								
7								
8								
9								
10								
Avg.	106.12	44.62					100.37	41



	Candles per H. P.
At 16 Candles.	290
At 24½ Candles.	385

6050 L.	209 hrs 9 45 am 12, 18, 97				350 hrs 7 30 am 1. 6 98																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	42			12½																				
2	41½			11½																				
3	43¾			12	42			10																
4	40¾			11	39½			9½																
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				11.75				9.75																
%				48.5				40.2																

6050 L.	209 hrs 9 45 am 12, 18, 97				350 hrs 7 30 am 1. 6 98																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	38¼			11	37¼			9½																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				11				9.5																
%				51.2				44.2																

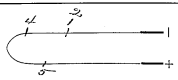
	20 hrs 6 PM 11-23-97				40 hrs 9 am 11-27-97				60 hrs 4 PM 11-30-97				80 hrs 4 PM 12-2-97				102, 30 1:30 PM 12-6-97				150 9 am 12-11-			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	44			19½	44			16¾	43			15½	43			14½	42			13½	40			12
2	43			20	44			17	42½			15½	42½			14½	42			13½	40			12
3	45			20	45			17	45			15½	45			14½	43½			13½	42½			12½
4	43			19½	42½			16½	42			14½	42			14	42			13½	40			11½
5	42½			18	43			15	42½			14	42			12½	41			11½				
6																								
7																								
8																								
9																								
10																								
Ave.				19.4				16.45				14.70				14.1				13.10				11.8
%				80				67.8				61.6				58.1				54.2				48.

	20 hrs 6 PM 11-23-97				40 hrs 9 am 11-27-97				60 hrs 4 PM 11-30-97				80 hrs 4 PM 12-2-97				102,30 1:30 PM 12-6-97				150 9 am 12-11-9			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	36			17½	36½			14½																
2	40			18½	40			16	39			15	39			14	39			13½	37½			11
3																								
4	36			17	35			14½	35			13½												
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				17.33				14.83				14.12				14				13.20				11
%				81.7				69				65.7				65.1				61.6				39

ORDER NO. 280 Box 13

At 24 1/4 Candles. Test Started 9 AM 11-22-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. HOURS.	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	105	45	8.19 am 1.4.98	329.15	2		99	41
2	106	44.5	10.20 am 1.6.98	341.30	3		100	40
3	103	42					98	42
4	106.5	44	9.45 am 1.11.98	386	4		101	40
5	108	45	2.10 PM 12-9-97	128.10	1		102	41
6								
7								
8								
9								
10								
Avg.	105.7	44.1					100	40.9

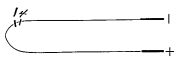


	Candles per H. P.
At 16 Candles.	291
At 24 1/4 Candles.	388

ORDER NO. 281 Box 14

At 21 1/2 Candles. Test Started 9 AM 11-22-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. HOURS.	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	110	37	10.55 AM 11-29-97	43.55	1		106	35
2	106	40					103	39
3								
4	109	37	10.30 am 12-1-97	63½	2		105	35
5								
6								
7								
8								
9								
10								
Avg.	108.33	38					104.66	36.33



	Candles per H. P.
At 16 Candles.	314
At 21 1/2 Candles.	389

	209 hrs				350 hrs																							
6000 L	9:40 am 12,18,97				7:20 am 1,6,98																							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	41½			11½	40			9½																				
2	40½			11½	39½			9½																				
3	41½			11½	40			9½																				
4	41½			12																								
5	41½			12	39½			10																				
6																												
7																												
8																												
9																												
10																												
Ave.				11.65				9.68																				
%				48				39.9																				

	209 hrs																											
6000 L	9:40 am 12,18,97																											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	40			11½																								
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
Ave.				11.5																								
%				47.9																								

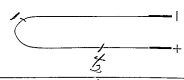
	20 hrs				40 hrs				60 hrs				80 hrs				102,30				150			
000 c.	60 Pm 11-23-97				gam 11-27-97				48 Pm 11-30-97				48 Pm 12-2-97				120 Pm 12-6-97				gam 12-11-97			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	44			20	44			17	42½			15½	42½			14½	42½			13½	40½			12½
2	43½			20	42			16½	42½			15½	42			14½	42			13½	40			12½
3	43			19½	42½			17	42½			15½	42			14½	42			13½	40			12½
4	44			20	43			16½	42½			15½	42			14½	42			13½	40			12
5	44			20½	43			17	43			15½	43			14½	41½			13½	40			12½
6																								
7																								
8																								
9																								
10																								
Ave.				19.85				16.85				15.6				14.35				13.6				12.[illegible]
%				82.3				69.5				64.3				60				56.1				50.3

	20 hrs				40 hrs				60 hrs				80 hrs				102,30				150			
	60 Pm 11-23-97				gam 11-27-97				48 Pm 11-30-97				48 Pm 12-2-97				132 Pm 12-6-97				gam 12-11-97			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	43			19	41			16	42			14½	41			13½	40			12½	39			11½
2	44			19½	44			16	43			15	43			14½	42½			13	40			11½
3	45			20	44			16½																
4	42½			18½	42½			16	41			15	41			14								
5	44			19	42½			16½																
6																								
7																								
8																								
9																								
10																								
Avg.				19.25				16.25				14.8				13.91				12.87				11.[illegible]
%				77.8				67.7				61.8				58				53.6				4[illegible]

ORDER No. 282 Box 15

At 24½ Candles. Test Started 9 AM 11-22-97 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. Minutes.	Order of breaking.		Volts.	Amperes.
1	106	45	8.30 am 1.10.98	374.15	3		100	42
2	106.5	45	8.45 am 1.8.98	369.15	2		101	42
3	105	44					100	40
4	105.5	44.5	10 am 12-20-97	212.30	1		99	40
5	106	45					100	41
6								
7								
8								
9								
10								
Avg.	105.8	44.7					100	41

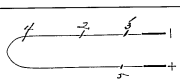


	Candles per H. P.
At 16 Candles.	291
At 24½ Candles.	383

ORDER No. 288 Box 16

At 24 Candles. Test Started 9 AM. 11-22-97 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. Minutes.	Order of breaking.		Volts.	Amperes.
1	104.5	43	3.30 pm 12.31.97	314.30	5		99	40
2	105	45	5.30 pm 12-16-97	183.35	4		99	42
3	104.5	45	1.45 PM 11-30-97	57.45	2		99	42
4	105	44.5	9.45 AM 12-6-97	98.15	3		99	41
5	103.5	45	10.50 AM 11-29-97	43.50	1		99	41
6								
7								
8								
9								
10								
Avg.	104.5	44.5					99	41.12



	Candles per H. P.
At 16 Candles.	293
At 24 Candles.	384

	209 hrs																								
000 L.	945 am 12/1897																								
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	
1																									
2																									
3	40½			11¾																					
4	40			11																					
5																									
6																									
7																									
8																									
9																									
10				113																					
Avg.				47.4																					
%																									

P.

	209 hrs				350 hrs																				
	945 am 12/1897				730 am 1.6.98																				
No.	A	R	V	C.P	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	
1	39			10¾																					
2																									
3	38½			10½	38			9½																	
4																									
5																									
6																									
7																									
8																									
9																									
10				102				95.8																	
Avg.				41.7				41.8																	
%																									

P.

	20 hrs 6 Pm 11-23-97				40 hrs 9 am 11-27-97				60 hrs 4 Pm 11-30-97				80 hrs 4 Pm 12-2-97				102.30 1 30 Pm 12-6-97				150 9 am 12-11-
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.
1	42½			20	42½			16½	41			14½	41			14	40			13				
2	42½			20	42½			16½	41			15												
3	42½			19½	42½			16½	42			13	41			14½	40			14	40			12
4	43			20	42½			16	42½			14½	42½			13½	41			14	40			11
5																								
6																								
7																								
8																								
9																								
10				19.93				16.38				14.57				14.08				13.66				11.7
Avg.				84				68.2				62				58.7				56.9				49
%																								

2.85 0.100 L.	20 hrs 6 Pm 11-23-97				40 hrs 9 am 11-27-97				60 hrs 4 Pm 11-30-97				80 hrs 4 Pm 12-2-97				102.30 1 30 Pm 12-6-97				150 9 am 12-11-
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	41			18¾	40			18¾	40			14	40			13½	40			12½	38			1
2	42½			18¾	42			15½																
3	40			19	40			13¾	40			14½	40			14	40			13½	37½			11
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				18.4				15.5				14.2				13.25				12.8				1
%				82				68.1				62.6				60%				56.6				4

ORDER No. 284 Box 14

At 24 Candles. Test Started 9 AM 11-22-97 At Candles.

NO. OF LAMPS.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	107	43	7 45 am 12-7-97	1045	2		101.5	41
2	107	43	8 am 12-1-97	60 hrs	1		101.5	40.5
3	106	43	7 30 am 1.6.98	350 hrs	4		100.5	40
4	105.5	44	9 15 am 1.5.98	340.45	3		99.5	40.5
5								
6								
7								
8								
9								
10								
Avg.	106.87	42.25					100.75	40.5

1 2 3 4

	Candles per H. P.
At 16 Candles.	298
At 24 Candles.	389

ORDER No. 285 Box 15

At 22 3/4 Candles. Test Started 9 AM 11-22-97 At 16 Candles.

NO. OF LAMPS.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	102	42	3 45 pm 1.5.98	347.15	2		98	40
2	102	43	9 am 11-30-97	53	1		97	41
3	104	42					99	40
4								
5								
6								
7								
8								
9								
10								
Avg.	102.66	42.33					98	40.33

1 2

	Candles per H. P.
At 16 Candles.	302
At 22 3/4 Candles.	389

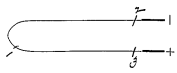
6550 L.	20 hrs 6 PM-11-23-97				40 hrs 9 am 11-27-97																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	40			16 3/4																				
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				16.75																				
%				74.4																				

	20 hrs 6 PM 11-23-97				40 hrs 9 am 11-27-97				60 hrs 4 PM 11-30-97				80 hrs 4 PM 12-2-97				102.30 12 PM 12-6-97							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	41 1/2			18 1/2																				
2																								
3																								
4	41			18 1/2	40 1/2			15 3/4	40			14 1/2	40			13 3/4	39			13				
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				18.5				15.34				14.5				13.25				13				
%				76.3				64.9				59.8				54.7				53.6				

ORDER No. 286 Box 19

At 22 1/2 Candles. Test Started 9 A.M. 11-22-97

No. of Lamp.	Volts.	Amperes.	Time Which Broken.	Lamp Life. Hours.	Order of Breaking.		At 16 Candles. Volts.	Amperes.
1	104	42	3-30 PM 11-23-97	24 hrs.	3		99	40
2	109	38	4 PM 11-22-97	7-	2		103	40
3	109.5	38	1030 AM 11-22-97	1-35	1		104	35
4								
5								
6								
7								
8								
9								
10								
Avg.	107.5	39.33					102	38.33

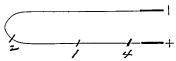


	Candles per H. P.
At 16 Candles.	306
At 22 1/2 Candles.	396

ORDER No. 287 Box 20

At 24 1/2 Candles. Test Started 9 A.M.

No. of Lamp.	Volts.	Amperes.	Time Which Broken.	Lamp Life. Hours.	Order of Breaking.		At 16 Candles. Volts.	Amperes.
1	107.5	44	5100 PM 11-24-97	26.10	2		102	40
2	109	43	232 PM 11-22-97	5-35	1		103	40
3								
4	109	43	1130 12-8-97	119.50	3		102	40
5								
6								
7								
8								
9								
10								
Avg.	108.5	43.33					102.33	40



	Candles per H. P.
At 16 Candles.	291
At 24 1/2 Candles.	386

P.

289 | 1.45 11-26-97 20 hrs

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	45			16½																				
2	42½			17¾																				
3	44			16																				
4	44			15¾																				
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				15.73																				
%				98.1																				

Takes down 45 3/4 hrs
1:15 PM 11/30/97

289 | 1.45 Brown 11-26-97 20 hrs

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	42½			16																				
2	46			16																				
3	45			15½																				
4	44			16																				
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				15.81																				
%				97.7																				

Takes down 45 3/4 hrs
1:15 PM 11/30/97

ORDER No. 288 Aylsworth - Lead glass

At 16¼ Candles. Test Started 415 PM 11-23-97 At Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life, unbroken	Order of breaking.		Volts.	Amperes.
1	100	45						
2	100	43						
3	101	44						
4	98.5	45						
5								
6								
7								
8								
9								
10								
Avg.	99.87	44.25						

—|
—+

	Candles per H. P.
At Candles.	
At 16¼ Candles.	275

ORDER No. 289 Aylsworth - Gunnar glass

At 16¼ Candles. Test Started 415 PM 11-23-97 At Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life, unbroken	Order of breaking.		Volts.	Amperes.
1	102	43						
2	98	45						
3	98	45						
4	100	44.5						
5								
6								
7								
8								
9								
10								
Avg.	99.5	44.37						

—|
—+

	Candles per H. P.
At Candles.	
At 16¼ Candles.	275

290 20 hrs 1230 PM 12-2-97 | 40 hrs 11:30 12-4-97

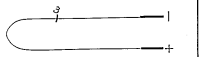
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	48			22	46½			18																
2	49			22½	47			18½																
3	48			22	45			17½																
4	49			22	47			17¾																
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				220½				17.87																
%				81.7				66.2																

ORDER No. 291 Aylesworth German Gl...

291 20 hrs 1230 PM 12-2-97 | 40 hrs 11:30 AM 12-4-97

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	49			21	47½			18																
2	49½			20½	47½			17½																
3	47½			20¾	46			17¾																
4	47½			20	45½			16½																
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				202½				17.43																
%				75				63.4																

ORDER NO. 290 Aylsworth lead Glass

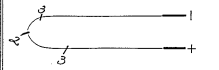


At 27 Candles. Test Started 2.30 PM 11-30-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	109	49					100	44
2	109	49					100	44
3	108	48.5					100	43.5
4	108	49	8 45 am 1.6.98	200.45	1		100	44
5								
6								
7								
8								
9								
10								
Avg.	108.5	48.875					100	43.875

	Candles per H. P.
At 16 Candles.	272
At 27 Candles.	381

ORDER NO. 291 Aylsworth's German Glass



At 27.5 Candles. Test Started 2.30 PM 11-30-97 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	109	50	12 M. 12.30.97	2.50.30	3		100	44
2	109	50	4 30 PM 12.23.97	201.30	2		100	44
3	111	49	11 30 am 12.21.97	173.30	1		101	44
4	110	49					101	44
5								
6								
7								
8								
9								
10								
Avg.	109.75	49.5					100.5	44

	Candles per H. P.
At 16 Candles.	270
At 27½ Candles.	376

	20 hrs 8 aws 12-16-97				40 hrs 9 aws 12-13-97				81 hrs 18 hrs 240 hrs 12-23-97															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	49			24	47 3/4				19	44 1/2			15 3/4											
3																								
4	50			24	49				19 3/4															
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				24					19.37				15.75											
%				57.3					70.5				57.3											

	206 3/4 hrs 10 aws 1-10-98																							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	40 1/4			11 1/4																				
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				11.25																				
%				39.2																				

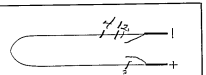
GOOD L.	20				40 hrs				81 hrs 10 mins				124.10 hrs				155 hrs 45 mins				177 hrs 10 mins
	8 am 12-16-97				9 am 12.18.97				2 45 pm 12-23-97				3 45 pm 12.29.97				3 45 pm Friday 5 pm 1.5.98				
NO.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	42½			18	42.75			15½	41¾			14	41½			13	40¾			12½	40¾			11½
2	42½			18	43.25			16	42			14	42			13½	41			12½				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				18				15.75				14				13.25				12.42				11.7
%				44.7				82.9				73.7				68.7				64.4				61.1

ORDER NO. 292 Aylsworth 2 Watts

Pianowire on inside posts

At Candles. Test Started 10 am 12, 14, 97 At 27½ Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1			930 am 12-15-97	10.30	1		110	50
2			1242 pm 12-14-97	89.45	3		112	49
3			130 pm 12-15-97	14.30	2		110	50
4			11 pm 12-23-97	98.15	4		111	50
5								
6								
7								
8								
9								
10								
Avg.							110.75	49.75

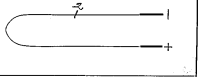


	Candles per H. P.
At 27½ Candles.	371
At Candles.	

ORDER NO. 293 Box 15

At Candles. Test Started 10 am 12, 14, 97 At 19 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1							104	42.5
2			3 pm 1.5.98	165.15	1		104	42.5
3								
4								
5								
6								
7								
8								
9								
10								
Avg.							104	42.5



	Candles per H. P.
At 19 Candles.	321
At Candles.	

6050 L.	206¾ hrs 10am 1.10.98																							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	44			9¾																				
2	47½			9¼																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				9.5																				
%				63.3																				

6050 L.	20 8am 12.16.97				40 hrs 9am 12-18-97																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	54¾			17	53			15																
2	55¼			17¼																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				17.12				15																
%				90.1				78.9																

	20				40 hrs				81 hrs 10 mins				124.15				155 hrs 45 mins				177 hrs 15 mins			
	8 am 12-16-1897				9 am 12-18-97				2 40 pm 12-23 97				3 45 pm 12-29 97				3 45 pm Jan 3 98				5 00 pm 1.5.98			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.
1	45½			13	48½			12½	47			12	46			10½	45			10½	45			10
2	50			14½	51½			13½	50½			12½	49			10½	48½			10½	48½			10.
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				13.62				13				12½				10.62				10.75				10.5
%				90.8				86.7				81.7				70.8				71.7				70

ORDER No. 294 Box 15

Flashed

At Candles. Test Started 10, a.m. 12.14.97 At 15 Candles.

At 15 Candles. Candles per H. P. 317

At Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		Volts.	Amperes.
1							73	50
2							68	50
3								
4								
5								
6								
7								
8								
9								
10								
Avg.							70.5	50

ORDER No. 295 Box 3 28 Watts

Flashed

At Candles. Test Started 10, a.m. 12-14-97 At 19 Candles.

At 19 Candles. Candles per H. P. 376

At Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		Volts.	Amperes.
1			1.45 p.m. 12-21-97	58.15	2		68.5	56
2			3.00 p.m. 12-17-97	37 hrs	1		67.5	55
3								
4								
5								
6								
7								
8								
9								
10								
Avg.							68	55.5

	20 hrs				40 hrs				65 hrs				98 hrs				130 hrs 42 min				160 3/4 hrs			
0000 L.	9:32 am 12.20.97				9:30 am 12.21.97				1:30 pm 12.23.97				4:8 pm 12.31.97				5:00 pm 1.5.98				10 am 1.10.98			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1									20½	47			17¾											
2	48¾			235	47½				19½	46½			16½	46½		15	45½			14	44¾			13
3	48¾			23	47½																			
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				23.12					19.37				17.12			15				14				13
%				82.6					71				61.2			53.6				50				46.4

	72½ hrs				82½ hrs				92½ hrs				102½ hrs				122 hrs							
0000 L.	3:42 pm 1.2.98				4:20 pm 1.4.98				5:00 pm 1.5.98				5 pm 1.6.97				10 am 1.10.98							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	50½			15	51			15½	51			16	50½			15	50½			15½				
2	54			17	53½			16½	54½			16½	54			16½	53½			16				
3	49½			17	49½			17	54½			16½	48½			16	48½			16				
4	54½			18	55			17½	55			18	54½			17½	53½			16½				
5	53½			15¾	53½			15½	53½			16	53			15½	53			14½				
6																								
7																								
8																								
9																								
10																								
Avg.				16.53				16.50				16.33				16.05				13.7				
%				103				103				102.3				100				78.1				

ORDER NO. 297 Edison Jr.

	10 hrs 1230 pm 12.24.97				20 hrs 130 pm 12.27.97				30½ hrs 1230 pm 12.29.97				41 hrs 45 min 3 30 pm 12.29.97				52 hrs 4 pm 12.30.97				62½ hrs 4 pm 12.30.97			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	50			14½	49½			13½	50			14½	50			14½	50½			14½	50½			15½
2	53½			17	53½			17	53½			18	53½			17	54			17	55			16½
3	49			16	49			16½	49½			17	49½			16½	49½			16	49½			16½
4	54½			17½	54½			17½	54½			17½	54½			17½	54½			17½	55			17½
5	52½			14½	52½			14	52½			13	53			13	53			14½	53			15
6																								
7																								
8																								
9																								
10																								
Avg.				15½				15.7				16.35				16.1				15.85				16.2
%				98.8				98.1				102				100				99.1				101

ORDER NO. 296 — 2 Watts

(Aylsworth) Sheet steel

At Candles. Test Started 4.30 PM 12-17-97 At 28 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (minutes)	Order of breaking.		Volts.	Amperes.
1			12.40 PM 12.20.97	1210	1		112	50
2			2 PM 12.22.97	75 hr	2		112	50 3/4
3							111.5	50 3/4
4								
5								
6								
7								
8								
9								
10								
Avg.							111.83	50.5

7 — 1 — +

Candles per H. P.

At 28 Candles. 370

At Candles.

ORDER NO. 297 — Edison Jr.

At Candles. Test Started 2.30 PM 12.23.97 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (minutes)	Order of breaking.		Volts.	Amperes.
1							113	50.5
2							112.5	52
3							112	49
4							113	53.5
5							112	52.5
6								
7								
8								
9								
10								
Avg.							112.6	51.5

— 1 — +

Candles per H. P.

At 16 Candles. 206.

At Candles.

	72 hrs				82 hrs				92 hrs				112½ hrs											
6000 r.	4:30 Pm 1.4.98				5:00 Pm 1.5.98				5 Pm 1.6.98				10 am 1.10.98											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	57½			21	56½			21	57			20½	56½			20								
2	56½			20½	56			20	56½			20	55½			18½								
3	57½			21½	57			21	57			20½	56½			20								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				21.6				20.6				20.25				19.41								
%				106				103				101				97.1								

	72 hrs				82 hrs				101½ hrs															
6000 r.	5:00 Pm 1.5.98				5 Pm 1.6.98				10 am 1.10.98															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	50½			14½	50½			12½	48½			10½												
2	52			13½																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				13.5				12.25				10.5												
%				56.3				51				43.8												

	10 hrs				20 hrs				31 hrs 15 min				41 hrs 30 min				52 hrs				62 hrs			
000 L.	2 PM 12,27,97				12 AM 12,28,97				3 15 PM 12,28,97				4 PM 12,30,97				4 PM 12,31,97				3 45 PM 1,3,97			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	56½			20	57			21½	57			21	57			21	57			21½	57			21
2	55½			19	56			20½	56½			20½	56½			20½	57			20½	56½			21
3	58			22½	58½			22½	58½			22½	58			21½	58			22	57½			22
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				20½				21.41				21.99				21				21.33				21
%				103				107				107				103				107				10

	10 hrs				21 hrs 15 min				31½ hrs				42 hrs				52 hrs				62 hrs			
	12 PM 12,28,97				3 15 PM 12,29,97				4 PM 12,30,97				4 PM 12,31,97				3 45 PM 1,3,98				4 30 PM 1,4,98			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	52½			23	53			18	53½			16½	53½			15½	51			14	51			13
2	57½			22½	56			18	54½			16	54			16	53			10	52½			14
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				22.87				18				16.25				15.75				14.25				14.7
%				95.3				75				67.7				65.6				60.4				57

ORDER No. 298 at 3,36 Watts

Edison Jr

At Candles. Test Started 2 PM 12 24 97 At 20 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.		Volts.	Amperes.
1							120	55.5
2							120	55
3							120	57
4								
5								
6								
7								
8								
9								
10								
Avg.							120	55.83

Candles per H. P.

At 20 Candles. 222

At Candles.

ORDER No. 299 Aylsworth

Hasked in Oil

At Candles. Test Started 2,30 PM 12 29 97 At 24 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.		Volts.	Amperes.
1							82	58 3/4
2			445 from 16.98	81.45	1		83.5	58 1/4
3								
4								
5								
6								
7								
8								
9								
10								
Avg.							82 3/4	58.5

Candles per H. P.

At 24 Candles. 369

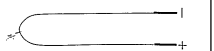
At Candles.

	13 hrs 15 min				30½ hrs				40½ hrs				50½ hrs				60½ hrs				80 hrs			
	9.30 am 12.31.97				3.45 pm 1.3.98				4 pm 1.4.98				3.30 pm 1.5.98				5 pm 1.6.98				10 am 1.10.98			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	47			19	43½			16	44½			15	43½			13½	43½			12½	42½			12½
2	51½			20	48½			16½	48½			15	48			14½	47½			13½	46½			13
3	48½			19½	46½			16½	46			15	45			14	44½			13½	44			12½
4	46½			19½	44½			16½	43½			14½				1								
5	47			18½	44½			15½	44½			14	43			12½	43			12	42			11½
6																								
7																								
8																								
9																								
10																								
Avg.				19.3				16.2				14.7				13.5				12.83				12.27
%				87.7				73.6				66.8				61.4				58.8				56

ORDER No. 300 Box #2

Flashed in oil

At Candles.			Test Started				At 22 Candles.	
NO. OF LAMP.	VOLTS.	AMPERES.		TIME WHEN BROKEN.	LAMP LIFE (LAMP HRS)	ORDER OF BREAKING.	VOLTS.	AMPERES.
1							89.5	50
2							85	53.5
3							88	50 3/4
4			730 am 1.5.98	41 hrs	1		89	49
5							89	49 3/4
6								
7								
8								
9								
10								
Avg.							88.2	50.6



	Candles per H. P.
At 22 Candles.	367
At Candles.	

[ITEM FOUND IN BOOK]

ASSOCIATION OF EDISON ILLUMINATING COMPANIES.

OFFICERS, 1897-98.

PRESIDENT, SAMUEL INSULL, CHICAGO, ILL.
VICE-PRESIDENT, R. R. BOWKER, NEW YORK, N. Y.
TREASURER, W. S. BARSTOW, BROOKLYN, N. Y.
SECRETARY, WILSON S. HOWELL, NEWARK, N. J.

LAMP TESTING BUREAU,
WILSON S. HOWELL,
P. O. BOX NO. 114,
NEWARK, N. J.

EXECUTIVE COMMITTEE, 1897-98.

SAMUEL INSULL, CHAIRMAN, CHICAGO EDISON CO., CHICAGO, ILL.
ALEX. DOW, DETROIT, MICH.
G. R. STETSON, NEW BEDFORD, MASS.
J. W. LIEB, JR., NEW YORK, N. Y.
SAMUEL SCOVILL, CLEVELAND, O.
O. L. EDGAR, BOSTON, MASS.
R. R. BOWKER, (EX-OFFICIO), NEW YORK, N.Y.
W. S. BARSTOW, " BROOKLYN, N. Y.
WILSON S. HOWELL, " NEWARK, N. J.

February 4, 1898.

Mr. Thos. A. Edison,

Edison, Sussex Co., N. J.

My dear Sir:--

I have just concluded a test upon ten regular Edison lamps of 100 v.-3.1 w. p. c.-burned at 2 w. p. c. initial; of which test, I enclose you a summary in the shape of a blue print, imagining that this is all the information that you desire.

The lamps were quite uniform in performance throughout the test, so that it is not of much interest to have the indivual curves, or the readings, of each lamp throughout test. The blue print shows the average of the curves made by the ten lamps to the point where 90% of the lamps had broken. The curve which branches from this average curve at 50 hours is the curve made by the lamp #6 from the 50 hours point where lamp #5 broke. The average curve included the performance of this lamp #6 with the others.

I shall be glad to give you any additional information which you may ask for concerning these tests. I shall keep on record the indivual performance of each lamp. The lamps were burned only during the working hours of the Bureau, while the

[ITEM FOUND IN BOOK]

Mr. Thos. A. Edison. Feb. 4, 1898.

regulation was held strictly constant. During the night hours, when the regulation is in the hands of the engineer of the Power House, these ten lamps were off test. Readings were made every two hours the first day, and every ten hours thereafter. These readings are on record, and show candle-power, amperes, watts, and watts per candle of each lamp. Candle-power is held constant by Mr. Deshler's standard, and read carefully to tenths of candles. The volts are constantly kept checked by Laboratory standards, furnished by the Weston Instrument Co. The current is read from Weston Ammeters kept in check by Laboratory standards made by Weston.

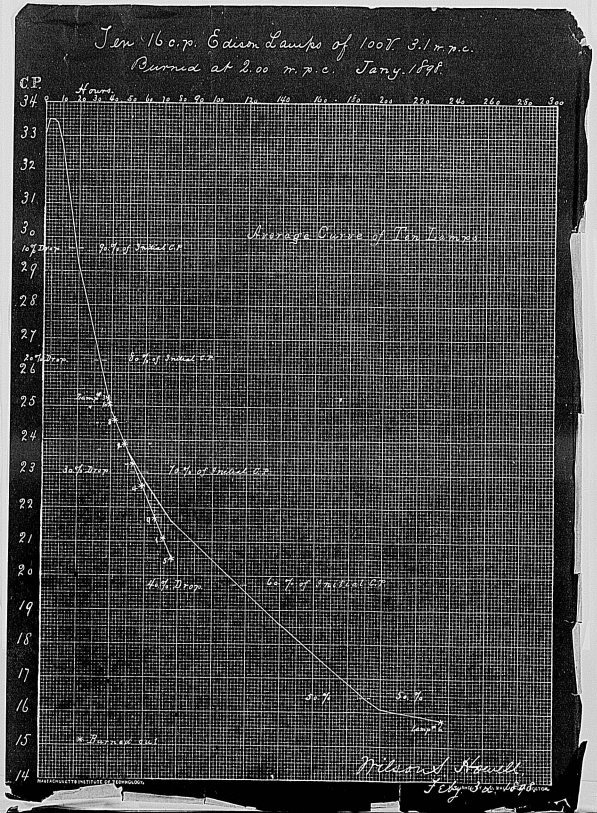
I shall consider it a pleasure to make any such additional tests and reports as you may, from time to time, desire.

Yours very truly,

Wilson S. Howell.

[ITEM FOUND IN BOOK]

[ENCLOSURE]



[ITEM FOUND IN BOOK]

5245
16
52666
52445
3257 | 5 7 7 5 (26.70
5302
22128
19506
2622
260008
2120

5227
16
52562
5227
3251 | 5 6 8 3 2 (26.71 26 3/4
6502
21812
19506
23060
22757
3030

53.74
27.10
6.25

[ITEM FOUND IN BOOK]

(A) G

3 (no 205-filo) waked Regular way then flash until you get filiments Cherry then o-n C off & put up at 2 watts —

H

2 Lamps (205-filo) dried clamps - worked in regular way and when ready to seal off - put on heat ~~[illegible]~~ and let run for ~~[illegible]~~ 1/2 hour then seal off —

set up at 2 watts,

[ITEM FOUND IN BOOK]

I 8 C.P. J 2 volts

~~Lf~~ Lamps (205 filament)
work in regular way,
and when ready to seal
put Tin Case around +
when all the heat you
can without softening
glass for 1/2 hour
then work Lamp in
regular way on high
Current ~~and~~ for 2 or 3
seconds to get air out
OVER

Daily K

Add 2 mrs lamps
(No 205 filament) +
when finished + ready
seal off let X ray
from a bulb 3 or 4
inches away from it
turn by a battery
phone or Lamp for
10 minutes then seal
while X Lamp is burning

[ITEM FOUND IN BOOK]

of Carbon which it
might have absorbed
while being heated
~~[illegible]~~
Then put heat on &
run for 10 minutes &
seal off —
put 2 up at 2 watts
& 2 at ~~[illegible]~~ sep.

[ITEM FOUND IN BOOK]

Lamp Factory 11-22 1 P.M.

C.P.	A	
14.5	40	
13.25	39.5	57.5 o/o
14.75	40	
.5	42.5	
57.5		

4 | 57.5
25 | 14.37 | 4 | 574
12.5
187
175
120
100

To 3/4 hours

1.
.5
6
12.5
.71.75
84.25

12.
71.75
83.75

~~Second Reading~~

81.75
1
5
6
12

81.75
11
72.75

Eight Reading

[ITEM FOUND IN BOOK]

4:30 P.M. 11-19-97 Lamp Test

	A	C.P.	
1	40	15.5	
2	39	14.25	61.2 o/o
3	40	15.5	
5	45	16	

71 3/4 4)61.25 / 15 3/12

4)61.25 / 15 3/12 = 61.2

15 / 61 / 25 / 62

Stilupatron Lamp Testing

	A.	C.P.	11-15-97
1	40	16 3/12	
2	38.5	14 1/2	64.2 o/o
3	39.5	16 3/4	
5	42	16 1/4	
		16.06	

Little Reading 5:30 P.M. 61.3%

[ITEM FOUND IN BOOK]

Set up at 2.5 Lamp Factory

	A	C.P.	
1		17	
2	.40	14.75	
3	.40	17	65.2 o/o
5	.40.5	16.5	
	43	16.312	51½ hours

Sixth Reading

Bamboo 45 C.P.

	A	C.P.	
2	.92	26	57.8 o/o
~~5 Pm~~	Set up ~~5 30 pm~~	26	

45/26000 (57.8
225
350
315
350
315
35

6¼
4½
47½

4/65.30
25 / 16.312 (65.2
15.0
1.31
1.25
60
50

7.5	7.5	7.5
4.0	2.5	9.2

[ITEM FOUND IN BOOK]

Lamp Testing

1	A	C.D.	2
2	.40	18.5	
3	.40	16.5	
5	.48		70.5%
		17.5	
7		17.62	
		45	
2	A	C.D.	67.9%
	94	31	
		31	

41½ Hours

[ITEM FOUND IN BOOK]

Jump Reading

	A	D.P.	
1	39	14.5	
2	39	12.25	5-4.5
3	39.5	13.5	
5	42.5	14.25	
Down	12.15 pm	12.625	
Up	1.15 "	93 Hours	

Finish Reading

153.0		
153 / 13.25 00 / 53		5-4.5
12.5		
75		15-450
75		25 / 1.625
		125
15320		112
1523		100
		123
		125

[ITEM FOUND IN BOOK]

Lamp Lap

A	1.10
39	14.25
36.75	12
40.	13.5
42.75	13.75

53.5 o/o

4 | 53.500

.25 | 13.375

125

77

75

1.23

53.5

943/4 hours